

1
2 **Q. Reference: Page 76, Lines 20-21**

3
4 **“In a recent Investment Strategy report (October 22, 2008), just as the market was**
5 **crashing the Royal Bank of Canada stated...”**

6
7 **Please provide a copy of the referenced report.**

8
9
10 **A. Provided as Attachment A, CA-NP-39**
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39



INVESTMENT STRATEGY | RESEARCH

RBC Dominion Securities Inc.

Myles Zyblock, CFA (Analyst)
Chief Institutional Strategist &
Director of Capital Markets Research
(416) 842-7805
myles.zyblock@rbccm.com

Kien Lim (Associate)
(416) 842-8745
kien.lim@rbccm.com

David Bezic (Associate)
(416) 842-7491
david.bezic@rbccm.com

October 22, 2008

For asset allocation summary,
please see pages 8-9.

For Required Disclosures,
please see page 10.

RBC Investment Strategy Weekly
Signs of Hope, but Too Early to Alter Strategy

The US equity market is now priced to deliver total annualized returns of about 7.4% per annum over the next ten years. The bear market has returned today's valuations to the mid-point of their 127-year range. Keep in mind, today's valuations offer no guidance about the returns that the market will generate over the next 10 months, 10 weeks or 10 minutes despite what some analysts might be saying. We warn against following Warren Buffet's recent counsel unless, of course, you can also follow his actions. Valuations are put to their most powerful use by the long-term, low-turnover, patient Buffet-like investor.

Despite the improving long-term outlook, we believe it is still too early for those with mandates focused on shorter horizons to make a pronounced shift into the equity market. We are seeing some signs that the forceful policy efforts over the past couple of weeks are helping to stabilize financial system stress. This is a necessary condition that should allow for eventual economic healing. However, we also believe that stabilization in the underlying fundamental outlook is the sufficient condition for a sustained rally in the equity market in particular and riskier assets more generally. What we are looking for here is an upturn in the breadth of leading economic indicators, a condition that remains elusive.

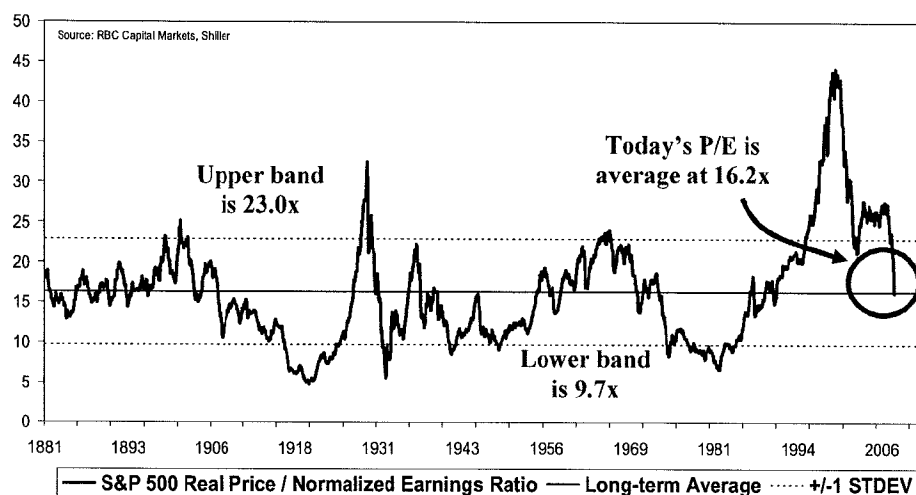
We continue to bias our equity choices toward top-ranked stocks according to our quant team's predictability model. These are stocks that typically generate superior returns as a group during periods of sluggish economic and earnings growth. The shelf-life on this trade is likely to be an additional 6-9 months AFTER leading economic indicators begin to turn up, an event that has yet to occur. Exhibit 6 and Exhibit 7 in the main body of this report contain names from the S&P 500 and TSX, respectively, that meet these screening criteria.

In this week's *Stock Chart of Interest*, we take a look at some interesting divergences between the performance of energy stocks and oil prices since the energy bull began in earnest earlier this decade.

Valuations Are All About the Long-Term

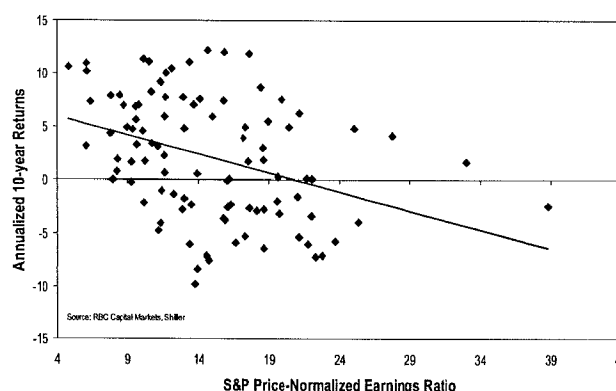
At its nadir, the S&P 500 was down by 42.5% from the last cycle peak set in October 2007. The scale of the price damage during this most recent slump rivals pretty much any other experienced during the post-WWII period. The 1973-74 bear market, for example, wiped away 48% of the stock market's value over 21 months. Meanwhile, the 31-month drop that started in early 2000 resulted in a 49% decline in stock prices. Simply stated, the current bear market is as brutal as anything observed over recent decades.

Exhibit 1: The US P/E Ratio Is Back to 127-Year Average Level



On the bright side, the price destruction has returned valuations to an historically average level (Exhibit 1). Today's market is now trading at 16.2 times its 10-year moving average of reported earnings per share, which is down significantly from the 27.3 times recorded one year ago. The rationale for looking at the moving average of reported earnings is to adjust for the influence of the economic cycle in order to paint a clearer picture of the range of valuations investors have been willing to pay for recurring earnings over time.

Exhibit 2: P/Es and Forward Returns, Estimated Link Between P/E and 10-Year Forward Return



Price-Normalized Earnings	Expected Price Return	95% Confidence Interval	
		Low	High
5	8.1	(2.4)	18.5
10	4.0	(6.5)	14.5
15	1.6	(8.8)	12.1
20	(0.1)	(10.5)	10.4
25	(1.4)	(11.8)	9.1
30	(2.4)	(12.9)	8.0
35	(3.3)	(13.8)	7.1
40	(4.1)	(14.6)	6.3
45	(4.8)	(15.3)	5.6
50	(5.4)	(15.9)	5.0
55	(6.0)	(16.5)	4.5

*Based on a regression of real price-normalized earnings against subsequent 10-year real stock market returns.

Source: RBC Capital Markets, Shiller

If there is anything that even hints at an axiom in this business, it's that the cheaper the stock market is at the time of the initial investment, the more likely it is that the initial investment generates superior inflation-adjusted returns over the subsequent decade (Exhibit 2, LHS). The contrary can be said for an initial investment in an expensive stock market. It is critical to note that there is no statistically significant link between valuations and subsequent one-year, two-year or even three-year annualized returns.

Valuation analysis is really about the long term. Take, for example, the last 10-year period beginning in October 1998. On our measure, the initial normalized price-to-earnings ratio for the stock market was 33.8 times. The results from a simple regression analysis at the time would have said the subsequent 10-year annualized inflation-adjusted price return would be somewhere in the neighborhood of -2.4% to -3.3% (Exhibit 2, RHS). It turns out that we can now calculate the actual inflation-adjusted return over this 10-year period, and it was not far off the estimate at -3.5% per annum. It is critical to notice, however, that despite the poor long-term return prospects flagged by our model in October 1998, the market still rose at a dizzying 22.8% annualized pace between October 1998 and March 2000.

Today's stock market, trading at just over 16 times our measure of normalized earnings, is expected to return close to 1.6% per annum after inflation (please refer again to Exhibit 2, RHS). Grossing this up by adding back the average inflation rate over the past decade of 2.8% and today's 3.0% dividend yield generates an expected long-term annualized nominal total return of 7.4% over the next decade. Hey, this isn't so bad when it's placed in the context of the prior 10 years. That said, it tells us absolutely nothing about where stocks might head over the next 6 months let alone 6 years, although it is somewhat better at gauging the latter.

Bottom Line: The bear market has returned today's US stock market valuations back to their long-term (i.e., 127 year) average level. By one fairly reliable methodology, today's valuations now generate an expected long-term annualized nominal total return of 7.4% over the next ten years. This isn't too bad. But, keep in mind that today's valuations offer no guidance about the returns that the market will generate over the next 10 months, 10 weeks and especially not during the next 10 minutes despite what some analysts might have you believe. We warn against following Warren Buffet's recent counsel if you can't actually follow Warren Buffet's actions. Valuations are put to their most powerful use by the long-term, low-turnover, patient Buffet-like investor.

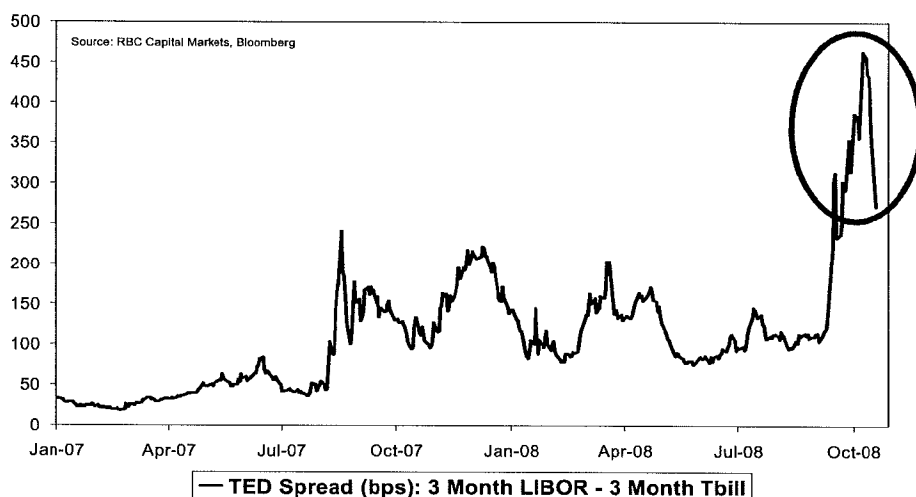
What About the Shorter 9- to 12-Month Horizon?

The past week has seen the equity market attempt to stabilize, various spreads compress, and, select cyclical sectors and groups start to lead to the upside. We were marketing in Asia and Australia over that period and a frequent question asked of us was whether the recent action represented "the bottom." Possibly. However, we do not believe it is all that helpful to "call a bottom." Rather, it seems more important to stick to a cyclical process that has worked fairly consistently over time in order to generate the best risk-adjusted portfolio decisions.

But before we get into that, let's provide you with some recent examples of where ad hoc rules of thumb for portfolio decision-making have backfired. Recall that in mid-March the Federal Reserve helped to orchestrate the Bear Stearns bailout. At that time, some people suggested the incident represented a "line in the sand" drawn by the authorities and marked the bottom for equities. The equity market subsequently made a new low. Then, when Treasury Secretary Paulson explicitly backed Fannie Mae and Freddie Mac in mid-July, we were told this event would be the one that defined the market's bottom. Equities once again proceeded to make a new low for the cycle. How about the heroic and coordinated global injection of funds announced by policymakers during the weekend of October 11? Sure, it could establish a bottom in the market. However, we are agnostic about whether this particular event marks an ultimate bottom for the stock market. Our investment process is likely to do a better job of gauging the outlook than our hopes, wishes or dreams.

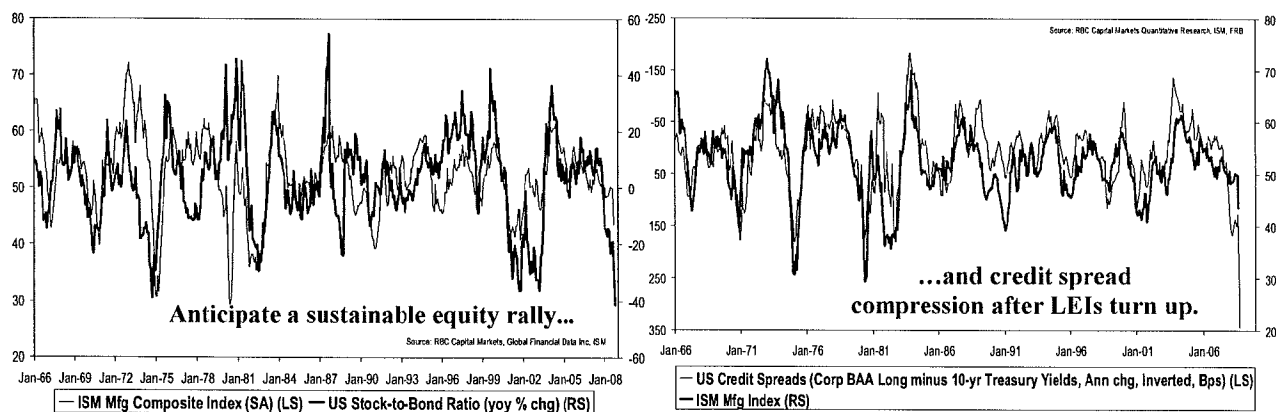
Why are we placing so much emphasis on process? This environment is being shaped by an epic deleveraging process and a never-before-seen policy response with numerous complexities and innate hazards. It is a first. Two things need to happen for us to become more comfortable about pushing our portfolio any further along the risk spectrum. They are as follows:

Exhibit 3: Financial System Stress Has Started to Recede



- **Relief from rising financial stress.** This is a first step and a necessary condition for a sustainable rally in stocks and other riskier assets to take hold, in our opinion. Governments around the globe are guaranteeing bank deposits, providing backstops for the interbank, commercial paper and money market,s as well as directly injecting capital into financial institutions. The compression of important funding spreads, such as the TED spread, suggests that these forceful policy efforts are being met with some success (Exhibit 3).
- **Stabilization in the underlying fundamental outlook.** We view this as the sufficient condition for a sustainable rally in riskier assets. This condition was absent during the mid-March and mid-July stock market rallies and remains absent today. What we are looking for here is an upturn in the breadth of leading economic indicators (i.e., the ISM manufacturing Index, the y-o-y rate of change of the Conference Board's Leading Index and the NFIB Small Business Optimism Index).

Exhibit 4: Stabilization in LEIs Is Sufficient to Add Risk to Portfolios



The critical message in the second bullet point above is highlighted by the two charts in Exhibit 4. Shortly after the leading indicators turn up, we will feel more comfortable about adding risk to the portfolio via equities (Exhibit 4, LHS) and/or credit instruments (Exhibit 4, RHS). It should also be around this same time that we will most likely begin adding additional funds to the early cyclical sectors and groups within the equity market.

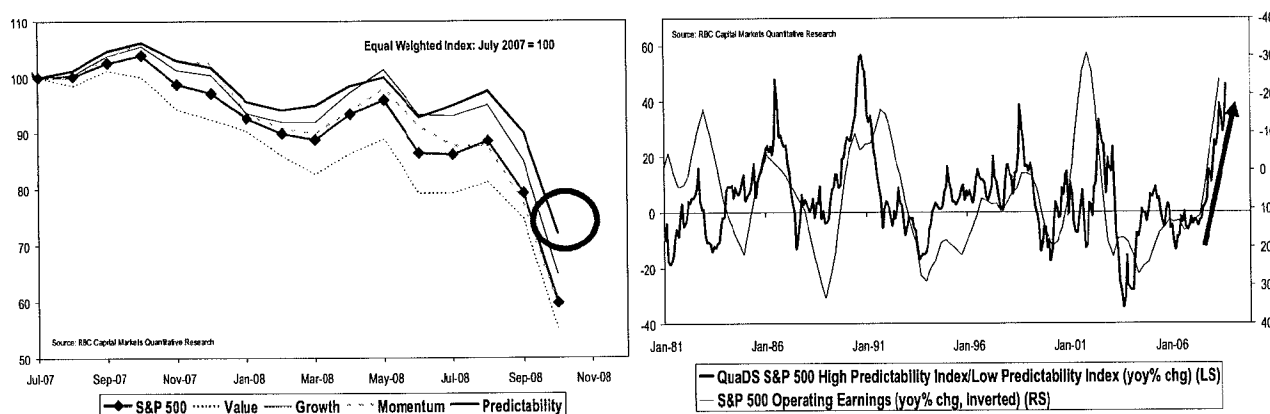
Bottom Line: Receding financial system stress suggests that one should probably stop aggressively selling equities into strength. However, this is something very different from saying that one should become a net

buyer. We will be looking to deploy new cash and move more forcefully into riskier and economically-sensitive asset classes only after leading economic indicators begin to turn upward. Our process will probably make us a bit late at the turn, but we hope to lower the risk of exposing too much capital to a destructive process like the one experienced a couple of weeks ago. For now, we retain a healthy dose of cash and continue to favor stable growth attributes within the equity market.

Predictability Remains the Primary Investment Style for the Times

We continue to favor top-ranked stocks according to our quant team's predictability style model. These stocks tend to outperform in environments such as the one faced by markets over the past year or so (see Exhibit 5, LHS), which has been marked by high market volatility and sluggish earnings growth (see Exhibit 5, RHS).

Exhibit 5: Predictability Outperforms When Volatility Is High and Earnings Growth Is Under Pressure



As our regular readers may recall, the predictability model assesses each stock in a defined universe based on the following four criteria: total return stability, earnings stability, non-recurring item frequency and confidence of earnings estimates. A bottom-up analyst might say that a stock scoring well according to our predictability model possesses a “high degree of visibility” whereas a lowly ranked stock on these criteria “lacks visibility”.

Exhibit 6: Top-Ranked S&P 500 Predictability Names

S&P 500 Top 10 Stocks Based on QuaDS Predictability Ranks												
			Decile Ranks in US Universe		Market		P/E	P/B	Div.	ROE	Est.	3M
Name	Symbol	GICS Sector	Predictability	Overall	Price	Float	on Est.		Yield	on Est.	EPS	Price
			QuaDS		(\$M)		EPS			EPS	Growth	Return
Southern Co	SO	Utilities	1	1	\$32.59	25,100M	13.6	2.0	5.2	14.2	1.5	-7.9
Altera Corp	ALTR	Info. Tech	1	1	\$16.63	5,003M	13.5	6.2	1.2	38.4	21.7	-24.2
Campbell Soup Co	CPB	Cons.Stap	1	2	\$34.68	12,506M	15.5	9.4	2.9	49.8	9.6	-4.7
Wal-Mart Stores	WMT	Cons.Stap	1	2	\$50.05	196,895M	13.6	2.9	1.9	20.0	9.5	-14.6
Bard (C.R.) Inc	BCR	Health Care	1	1	\$75.99	7,549M	16.1	4.0	0.8	22.4	11.9	-18.1
Lilly (Eli) & Co	LLY	Health Care	1	1	\$32.54	36,996M	7.9	2.5	5.8	29.2	10.6	-30.9
Wyeth	WYE	Health Care	1	2	\$30.54	40,723M	8.4	2.1	3.9	22.5	1.0	-24.6
Omnicom Group	OMC	Cons.Disc	1	2	\$30.36	9,679M	8.9	2.3	2.0	23.0	5.7	-28.9
Xcel Energy Inc.	XEL	Utilities	1	2	\$16.50	7,365M	10.5	1.1	5.8	10.4	6.3	-17.7
Bristol Myers Squibb	BMJ	Health Care	1	2	\$17.33	34,307M	9.6	3.2	7.2	31.5	30.4	-17.9

Source: RBC Capital Markets Quantitative Research. As of October 15, 2008.

In addition to the above predictability criteria, we further refine today's stock screens by restricting our choices to those names that also sit within the first two deciles of our quant system's overall factor ranking procedure. This overall ranking incorporates all four of our main factor models: predictability, momentum, growth and value. The net result of our particular process is a screen that significantly overweights a stock's predictability attributes while at the same time makes sure that a stock has broader investment

merit. Exhibit 6 and Exhibit 7 contain names from the S&P 500 and TSX, respectively, that meet these screening criteria.

Exhibit 7: Top-Ranked TSX Predictability Names

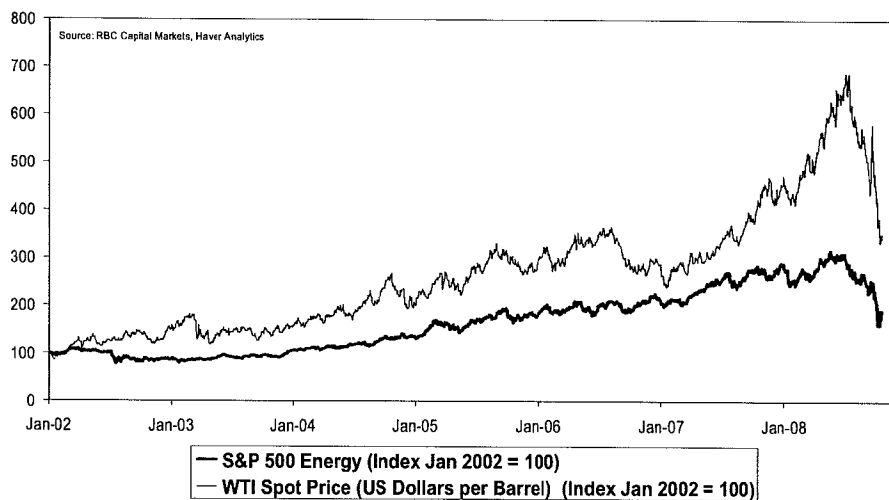
TSX Top 10 Stocks Based on QuaDS Predictability Ranks												
			Decile Ranks in Cdn Universe		Market		P/E	P/B	Div.	ROE	Est.	3M
Name	Symbol	GICS Sector	Predictability	Overall QuaDS	Price	Floot (\$M)	on Est. EPS		Yield	on Est. EPS	EPS Growth	Price Return
Shaw Communications Inc. 'B'	SJR.B	Cons.Disc	1	1	\$19.90	6,547M	16.2	3.8	4.0	21.5	8.4	-11.8
Corus Entertainment Inc.	CJR.B	Cons.Disc	1	2	\$15.91	1,240M	10.6	1.3	3.8	11.8	1.4	-15.6
Cogeco Cable Inc.	CCA	Cons.Disc	1	2	\$33.76	885M	13.3	1.3	1.2	9.3	23.4	-20.0
TELUS Corporation	T	Telecom	1	2	\$36.82	14,015M	11.8	2.0	4.9	16.2	5.1	11.0
Power Corp. Of Canada	POW	Financials	1	2	\$27.70	9,225M	8.9	1.3	4.2	13.8	2.8	-14.7
CAE Inc.	CAE	Industrials	1	1	\$6.86	1,748M	8.9	1.8	1.7	18.2	13.2	-40.3
Reitman's (Canada) Ltd. 'A'	RET.A	Cons.Disc	1	1	\$14.43	796M	9.2	1.9	5.0	19.9	1.6	-12.5
Laurentian Bank Of Canada	LB	Financials	1	1	\$42.00	1,001M	10.4	1.2	3.2	10.9	14.6	-3.8
Empire Company Ltd. 'A'	EMP.A	Cons.Stap	1	2	\$43.54	1,076M	11.3	1.2	1.6	10.0	2.9	-6.6
National Bank Of Canada	NA	Financials	1	1	\$44.24	7,045M	7.6	1.5	5.6	18.6	1.0	-14.9

Source: RBC Capital Markets Quantitative Research. As of October 15, 2008.

Bottom Line: We continue to bias our equity choices toward top-ranked stocks according to our quant team's predictability model. These are the stocks that typically generate superior returns as a group during periods of sluggish economic and earnings growth. The shelf-life on this trade is likely to be an additional 6-9 months AFTER leading indicators first begin to turn up. Currently, leading indicators remain in a down trend.

Stock Chart of Interest: S&P 500 Energy and Oil Prices

Participating on the Down Side



From the time that it began running up in early 2002 to its recent peak, oil advanced a whopping 625%. In comparison, related equities – as measured by the S&P 500 Energy sector – managed a return of only 218% en route to their peak. Interestingly, although the stocks failed to keep pace with oil on the way up, they have been punished to an almost equal degree on the downside, with each having given up around 40%-50% from its respective peak. The stocks have now come down to prices not seen since the fall of 2006, a time when the commodity was sitting at just \$60/bbl.

RBC Capital Markets North American Economic and Market Forecasts

Asset Mix	Past Range	New Year '08		Spring '08		Summer '08		Fall '08	
		Canada	US	Canada	US	Canada	US	Canada	US
Stocks	40% - 70%	55	60	60	65	60	55	60	55
Bonds	10 - 55	25	25	20	20	20	20	20	20
Cash	0 - 40	20	15	20	15	20	25	20	25
Change from Last Quarter									
Economic Forecast	Canada	United States							
Real GDP 3Q'09/3Q'08	1.50%	(0.50)	1.50%	+0.25					
3Q'10/3Q'09	2.00	(0.25)	2.50	N/C					
CPI 3Q'09/3Q'08	2.00	N/C	2.50	(1.00)					
3Q'10/3Q'09	2.25	N/C	2.50	(0.25)					
Change from Last Quarter									
Market Index Earnings (all net of unusual items)	2007A	2008E	2009E						
S&P/TSX (top-down)	818.0	\$995.0	+25.65	\$1,045.0	(11.60)				
S&P/TSX (consensus bottom-up)	818.0	1,036.5	+47.70	1,243.0	+115.59				
S&P 500 (top-down)	83.3	76.0	+0.16	80.0	(3.42)				
S&P 500 (consensus bottom-up)	83.3	84.2	(7.92)	105.9	(3.23)				
Change from Last Quarter									
Targets	29-Aug-08	31-Aug-09	Forecast	Change from Last Quarter	1 Year Total Return Est.				
Canada 91-Day T-Bill Rate	2.40	3.00	N/C		2.6				
Canada 10-Year Bond Yield	3.46	4.25	+0.25		(2.4)				
U.S. 91-Day T-Bill Rate	1.72	2.25	+0.25		1.9				
U.S. 10-Year Bond Yield	3.83	4.25	N/C		0.7				
Canada Dollar	0.94	0.90	(0.10)		(4.4)				
S&P/TSX Composite	13771	14000	(1250.00)		4.6				
S&P 500	1283	1400	(150.00)		11.3				

Source: RBC Capital Markets, BEA, Statistics Canada, Thomson Analytics

Asset Allocation Themes:

- **The asset mix remains defensively postured and positioned for modest further yield curve steepening.** A challenging economic and earnings growth environment limits our optimism toward equities. We are still waiting for the breadth of leading economic indicators to improve before adding to equity exposure.
- **Earnings growth could remain sluggish into 2009.** TSX earnings are expected to outperform, but the confidence in our estimates is substantially lowered by the role that highly volatile commodity prices play. Limited pricing power, margin erosion and sluggish volume growth are expected to continue to weigh on S&P 500 earnings growth.
- **Our year-ahead earnings targets imply higher all-in returns for the S&P 500 than the TSX.** We believe the prospect for valuation expansion in the US is much greater whereas the downside risks to Canadian earnings growth are more serious given that growth in the rest of the world is now slowing.

RBC Capital Markets Recommended TSX & S&P 500 Sector Exposure

Canadian Equity Sectors	Current Recommendation	Recent Change (Sep 2, 2008)	Comments
Telecom Services	Overweight	None	Solid free cash flow generation, margins holding in better than those for the overall market, attractive valuations and shareholder-friendly management.
Industrials	Overweight	None	Steady improvement in RoE, positive earnings estimate revisions and attractively valued on a P/B and P/S basis. Within the sector, we are biased towards Capital Goods.
Information Technology	Overweight	None	The acceleration in RoE and net margins combined with an upturn in earnings estimate revisions point to strong earnings reports in coming quarters. This is balanced against elevated valuation metrics.
Consumer Discretionary	Overweight	<i>Upgraded from Market Weight</i>	Margins are under pressure and earnings estimate revisions have dropped into negative territory. Sluggish economic growth in Eastern Canada might prove to be an issue. Media is our primary focus.
Materials	Market Weight	None	A deteriorating supply-demand balance, elevated valuations and moderation in global growth are key risks to the outlook. Emphasize Chemicals and Gold.
Energy	Market Weight	None	The long-term story of sustainably higher oil prices is compelling. However, slowing global energy demand and increasing supply could turn problematic for the underlying commodity prices. Valuations appear a tad rich.
Consumer Staples	Market Weight	None	Investors' quest for high-quality attributes provides some downside protection. Profitability metrics might be stabilizing while positive estimate revisions point to an improved earnings outlook. Valuations remain above their historic norm.
Utilities	Underweight	<i>Downgraded from Market Weight</i>	Earnings forecasts are starting to moderate as analysts clip their estimates. RoE is leveling off. Stability and attractive dividend yields offer portfolio ballast in a tough macro environment, but valuations are extended relative to history.
Health Care	Underweight	None	A select yield play with attractive valuations. Deteriorating profitability and lack of visibility remain ongoing concerns.
Financials	Underweight	None	Attractive dividend yields and relatively high-quality earnings streams are a plus. Turmoil in financial markets and continued spillovers into prospective profitability remain a concern. Continue to favor the Insurers over the Banks.

U.S. Equity Sectors	Current Recommendation	Recent Change (Sep 2, 2008)	Comments
Industrials	Overweight	None	Global infrastructure development is a long-term support. Superior profitability. Earnings outlook poised to brighten as ISM Composite Index swings higher in late H2'08. Favor Aerospace & Defense, Machinery, and Electrical Equipment.
Information Technology	Overweight	None	Improving margins and RoE with attractive valuations. Strong global exposure, but cyclicality is an important risk. Both Software and Hardware are attractive. Add to Semis in advance of a late H2'08 sales growth recovery.
Health Care	Overweight	None	An aging population remains a key long-term support. Late-year elections introduce risk. Attractive valuations, positive earnings revisions and improving net margins maintain our interest. Remain focused on Biotech, Health Care Equipment & Supplies.
Consumer Staples	Overweight	None	Stable earnings delivery and strong balance sheets are key supports. Profitability is being tested by rising input costs but positive earnings revisions suggest earnings are turning a corner. Fundamentals look strongest for Food, Beverage & Tobacco and Hypermarkets & Super Centers.
Energy	Market Weight	None	A relatively inexpensive way to capture the benefits of global growth. Global leading indicators point to risk of moderating energy demand. Favor the Integrates.
Consumer Discretionary	Market Weight	None	Macro landscape remains challenging as payrolls and wage gains slow while energy prices remain elevated. Margins have peaked and earnings growth is under pressure. Aggressive policy reflation and extremely oversold readings limit our pessimism. Favor Restaurants.
Financials	Underweight	None	Weakening credit trends, softening loan demand and a slowdown in capital markets activity are placing a significant weight on fundamentals. We prefer Insurance.
Materials	Underweight	None	One of the worst performers when broad market earnings growth slows. Sector is also at risk from the downward trend in global leading indicators. Favor Chemicals.
Telecom Services	Underweight	None	Earnings outlook has deteriorated in response to slowdown in consumer spending on Telecom Services. Integrates are favored over Wireless on the basis of stronger profitability, market share dominance, and higher dividend yield.
Utilities	Underweight	None	Offers a decent hedge against volatile financial market conditions. However, a premium valuation absent a premium earnings growth rate is a key long-term challenge.

Source: RBC Capital Markets

Required Disclosures

This product constitutes a compendium report (covers six or more subject companies). As such, RBC Capital Markets chooses to provide specific disclosures for the subject companies by reference. To access current disclosures for the subject companies, clients should refer to <http://www7.rbccm.com/GLDDisclosure/PublicWeb/DisclosureLookup.aspx?EntityID=1> or send a request to RBC CM Research Publishing, P.O. Box 50, 200 Bay Street, Royal Bank Plaza, 29th Floor, South Tower, Toronto, Ontario M5J 2W7.

Distribution of Ratings, Firmwide

For the purpose of ratings distributions, regulatory rules require member firms to assign ratings to one of three rating categories - Buy, Hold/Neutral, or Sell - regardless of a firm's own rating categories. Although RBC Capital Markets' ratings of Top Pick/Outperform, Sector Perform and Underperform most closely correspond to Buy, Hold/Neutral and Sell, respectively, the meanings are not the same because our ratings are determined on a relative basis (as described above).

Distribution of Ratings, Firmwide RBC Capital Markets				
Rating	Count	Percent	Investment Banking Serv./Past 12 Mos.	
			Count	Percent
BUY[TP/O]	547	46.16	161	29.43
HOLD[SP]	540	45.57	118	21.85
SELL[U]	98	8.27	21	21.43

Analyst Certification

All of the views expressed in this report accurately reflect the personal views of the responsible analyst(s) about any and all of the subject securities or issuers. No part of the compensation of the responsible analyst(s) named herein is, or will be, directly or indirectly, related to the specific recommendations or views expressed by the responsible analyst(s) in this report.

Dissemination of Research and Short-Term Trading Calls

RBC Capital Markets endeavors to make all reasonable efforts to provide research simultaneously to all eligible clients, having regard to local time zones in overseas jurisdictions. RBC Capital Markets' equity research is posted to our proprietary websites to ensure eligible clients receive coverage initiations and changes in ratings, targets and opinions in a timely manner. Additional distribution may be done by the sales personnel via email, fax or regular mail. Clients may also receive our research via third party vendors. Please contact your investment advisor or institutional salesperson for more information regarding RBC Capital Markets' research.

RBC Capital Markets also provides eligible clients with access to a database which may contain Short-Term trading calls on certain of the subject companies for which it currently provides equity research coverage. The database may be accessed via the following hyperlink <https://www2.rbccm.com/cmonline/index.html>. The information regarding Short-Term trading calls accessible through the database does not constitute a research report. These Short-Term trading calls are not formal ratings and reflect the research analyst's views with respect to market and trading events in the coming days or weeks and, as such, may differ from the price targets and recommendations in our published research reports reflecting the research analyst's views of the longer-term (one year) prospects of the subject company. Thus, it is possible that a subject company's common equity that is considered a long-term 'sector perform' or even an 'underperform' might be a Short-Term buying opportunity as a result of temporary selling pressure in the market; conversely, a subject company's common equity rated a long-term 'outperform' could be considered susceptible to a Short-Term downward price correction.

Conflicts Disclosures

RBC Capital Markets Policy for Managing Conflicts of Interest in Relation to Investment Research is available from us on request. To access our current policy, clients should refer to <http://www.rbccm.com/cm/file/0%2C%2C63022%2C00.pdf> or send a request to RBC CM Research Publishing, P.O. Box 50, 200 Bay Street, Royal Bank Plaza, 29th Floor, South Tower, Toronto, Ontario M5J 2W7. We reserve the right to amend or supplement this policy at any time.

Important Disclosures

The analyst(s) responsible for preparing this research report received compensation that is based upon various factors, including total revenues of the member companies of RBC Capital Markets and its affiliates, a portion of which are or have been generated by investment banking activities of the member companies of RBC Capital Markets and its affiliates.

Additional Disclosures

RBC Capital Markets is the business name used by certain subsidiaries of Royal Bank of Canada, including RBC Dominion Securities Inc., RBC Capital Markets Corporation, Royal Bank of Canada Europe Limited and Royal Bank of Canada - Sydney Branch. The information contained in this report has been compiled by RBC Capital Markets from sources believed to be reliable, but no representation or warranty, express or implied, is made by Royal Bank of Canada, RBC Capital Markets, its affiliates or any other person as to its accuracy, completeness or correctness. All opinions and estimates contained in this report constitute RBC Capital Markets' judgment as of the date of this report, are subject to change without notice and are provided in good faith but without legal responsibility. Nothing in this report constitutes legal, accounting or tax advice or individually tailored investment advice. This material is prepared for general circulation to clients and has been prepared without regard to the individual financial circumstances and objectives of persons who receive it. The investments or services contained in this report may not be suitable for you and it is recommended that you consult an independent investment advisor if you are in doubt about the suitability of such investments or services. This report is not an offer to sell or a solicitation of an offer to buy any securities. Past performance is not a guide to future performance, future returns are not guaranteed, and a loss of original capital may occur. RBC Capital Markets research analyst compensation is based in part on the overall profitability of RBC Capital Markets, which includes profits attributable to investment banking revenues. Every province in Canada, state in the U.S., and most countries throughout the world have their own laws regulating the types of securities and other investment products which may be offered to their residents, as well as the process for doing so. As a result, the securities discussed in this report may not be eligible for sale in some jurisdictions. This report is not, and under no circumstances should be construed as, a solicitation to act as securities broker or dealer in any jurisdiction by any person or company that is not legally permitted to carry on the business of a securities broker or dealer in that jurisdiction. To the full extent permitted by law neither RBC Capital Markets nor any of its affiliates, nor any other person, accepts any liability whatsoever for any direct or consequential loss arising from any use of this report or the information contained herein. No matter contained in this document may be reproduced or copied by any means without the prior consent of RBC Capital Markets.

Additional information is available on request.

To U.S. Residents:

This publication has been approved by RBC Capital Markets Corporation, which is a U.S. registered broker-dealer and which accepts responsibility for this report and its dissemination in the United States. Any U.S. recipient of this report that is not a registered broker-dealer or a bank acting in a broker or dealer capacity and that wishes further information regarding, or to effect any transaction in, any of the securities discussed in this report, should contact and place orders with RBC Capital Markets Corporation.

To Canadian Residents:

This publication has been approved by RBC Dominion Securities Inc. Any Canadian recipient of this report that is not a Designated Institution in Ontario, an Accredited Investor in British Columbia or Alberta or a Sophisticated Purchaser in Quebec (or similar permitted purchaser in any other province) and that wishes further information regarding, or to effect any transaction in, any of the securities discussed in this report should contact and place orders with RBC Dominion Securities Inc., which, without in any way limiting the foregoing, accepts responsibility for this report and its dissemination in Canada.

To U.K. Residents:

This publication has been approved by Royal Bank of Canada Europe Limited ('RBCEL') which is authorized and regulated by Financial Services Authority ('FSA'), in connection with its distribution in the United Kingdom. This material is not for general distribution in the United Kingdom to retail clients, as defined under the rules of the FSA. However, targeted distribution may be made to selected retail clients of RBC and its affiliates. RBCEL accepts responsibility for this report and its dissemination in the United Kingdom.

To Persons Receiving This Advice in Australia:

This material has been distributed in Australia by Royal Bank of Canada - Sydney Branch (ABN 86 076 940 880, AFSL No. 246521). This material has been prepared for general circulation and does not take into account the objectives, financial situation or needs of any recipient. Accordingly, any recipient should, before acting on this material, consider the appropriateness of this material having regard to their objectives, financial situation and needs. If this material relates to the acquisition or possible acquisition of a particular financial product, a recipient in Australia should obtain any relevant disclosure document prepared in respect of that product and consider that document before making any decision about whether to acquire the product.

To Hong Kong Residents:

This publication is distributed in Hong Kong by RBC Investment Services (Asia) Limited, a licensed corporation under the Securities and Futures Ordinance or, by Royal Bank of Canada, Hong Kong Branch, a registered institution under the Securities and Futures Ordinance. This material has been prepared for general circulation and does not take into account the objectives, financial situation, or needs of any recipient. Hong Kong persons wishing to obtain further information on any of the securities mentioned in this publication should contact RBC Investment Services (Asia) Limited or Royal Bank of Canada, Hong Kong Branch at 17/Floor, Cheung Kong Center, 2 Queen's Road Central, Hong Kong (telephone number is 2848-1388).

To Singapore Residents:

This publication is distributed in Singapore by RBC (Singapore Branch), a registered entity granted offshore bank status by the Monetary Authority of Singapore. This material has been prepared for general circulation and does not take into account the objectives, financial situation, or needs of any recipient. You are advised to seek independent advice from a financial adviser before purchasing any product. If you do not obtain independent advice, you should consider whether the product is suitable for you. Past performance is not indicative of future performance.

® Registered trademark of Royal Bank of Canada. RBC Capital Markets is a trademark of Royal Bank of Canada. Used under license.

Copyright © RBC Capital Markets Corporation 2008 - Member SIPC

Copyright © RBC Dominion Securities Inc. 2008 - Member CIPF

Copyright © Royal Bank of Canada Europe Limited 2008

Copyright © Royal Bank of Canada 2008

All rights reserved.