



Aspen Insurance Holdings Limited

February 10, 2010

Q4 2009 Earnings Conference Call

AHL: NYSE

Safe Harbor Disclosure



This slide presentation is for information purposes only. It should be read in conjunction with our financial supplement posted on our website on the Investor Relations page and with other documents filed or to be filed shortly by Aspen Insurance Holdings Limited (the "Company" or "Aspen") with the U.S. Securities and Exchange Commission.

Non-GAAP Financial Measures

In presenting Aspen's results, management has included and discussed certain "non-GAAP financial measures", as such term is defined in Regulation G. Management believes that these non-GAAP measures, which may be defined differently by other companies, better explain Aspen's results of operations in a manner that allows for a more complete understanding of the underlying trends in Aspen's business. However, these measures should not be viewed as a substitute for those determined in accordance with GAAP. The reconciliation of such non-GAAP financial measures to their respective most directly comparable GAAP financial measures in accordance with Regulation G is included herein or in the financial supplement, as applicable, which can be obtained from the Investor Relations section of Aspen's website at www.aspen.bm.

Application of the Safe Harbor of the Private Securities Litigation Reform Act of 1995:

This presentation contains, and Aspen's earnings conference call will contain, written or oral "forward-looking statements" within the meaning of the U.S. federal securities laws. These statements are made pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. Forward-looking statements include all statements that do not relate solely to historical or current facts, and can be identified by the use of words such as "expect," "intend," "plan," "believe," "project," "anticipate," "seek," "will," "estimate," "may," "continue," "guidance," and similar expressions of a future or forward-looking nature.

All forward-looking statements address matters that involve risks and uncertainties. Accordingly, there are or will be important factors that could cause actual results to differ materially from those indicated in these statements. Aspen believes these factors include, but are not limited to: the continuing and uncertain impact of the current depressed credit environment, the banking crises and economic recessions in many of the countries in which we operate and of the measures being taken by governments to counter these issues; the risk of a material decline in the value or liquidity of all or parts of our investment portfolio; changes in insurance and reinsurance market conditions that could adversely impact execution of the business plan; changes in our ability to exercise capital management or strategic initiatives or to arrange banking facilities as a result of prevailing market changes or changes in our financial position; our ability to execute our business plan to enter new markets, introduce new products and develop new distribution channels, including their integration into our existing operations; increased counterparty risk due to the impairment of financial institutions; changes in the total industry losses, or our share of total industry losses, resulting from past events such as Hurricanes Ike and Gustav and, with respect to such events, our reliance on loss reports received from cedants and loss adjustors, our reliance on industry loss estimates and those generated by modeling techniques, changes in rulings on flood damage or other exclusions as a result of prevailing lawsuits and case law, any changes in our reinsurers' credit quality and the amount and timing of reinsurance recoverables; the impact of acts of terrorism and related legislation and acts of war; the possibility of greater frequency or severity of claims and loss activity, including as a result of natural or man-made catastrophic events, than our underwriting, reserving, reinsurance purchasing or investment practices have anticipated; evolving interpretive issues with respect to coverage after major loss events; the level of inflation in repair costs due to limited availability of labor and materials after catastrophes; the effectiveness of our loss limitation methods; changes in the availability, cost or quality of reinsurance or retrocessional coverage; the reliability of, and changes in assumptions to, catastrophe pricing, accumulation and estimated loss models; loss of key personnel; a decline in our operating subsidiaries' ratings with Standard & Poor's ("S&P"), A.M. Best or Moody's Investors Service ("Moody's"); changes in general economic conditions, including inflation, foreign currency exchange rates, interest rates and other factors that could affect our investment portfolio; the number and type of insurance and reinsurance contracts that we wrote at the January 1st and other renewal periods in 2009 and the premium rates available at the time of such renewals within our targeted business lines; increased competition on the basis of pricing, capacity, coverage terms or other factors and the related demand and supply dynamics as contracts come up for renewal; decreased demand for our insurance or reinsurance products and cyclical changes in the insurance and reinsurance sectors; changes in government regulations or tax laws in jurisdictions where we conduct business; and Aspen or its Bermudian subsidiary becoming subject to income taxes in the United States or the United Kingdom; and the effect on insurance markets, business practices and relationships of ongoing litigation, investigations and regulatory activity by insurance regulators and prosecutors. For a more detailed description of these uncertainties and other factors, please see the "Risk Factors" section in Aspen's Annual Reports on Form 10-K as filed with the U.S. Securities and Exchange Commission on February 26, 2009. Aspen undertakes no obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise. Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the dates on which they are made.

In addition, any estimates relating to loss events involve the exercise of considerable judgment and reflect a combination of ground-up evaluations, information available to date from brokers and cedants, market intelligence, initial tentative loss reports and other sources. Due to the complexity of factors contributing to the losses and the preliminary nature of the information used to prepare these estimates, there can be no assurance that Aspen's ultimate losses will remain within the stated amount.

Financial Highlights: Q4 2009



(US\$ in millions, except per share data)

Quarter Ended December 31	2009	2008	Change
Gross Written Premiums	405.7	435.4	(6.8%)
Net Written Premiums	383.4	406.1	(5.6%)
Net Earned Premiums	476.2	478.6	(0.5%)
Underwriting Income	73.3	31.9	129.8%
Net Investment Income	58.2	10.3	465.0%
Net Income after Tax	126.3	21.8	479.4%

Financial Ratios

Loss Ratio	47.8%	64.9%	
Expense Ratio	36.9%	28.5%	
Combined Ratio	84.7%	93.4%	
Annualized Operating ROE*	18.8%	2.4%	
Operating EPS*	1.44	0.17	747.1%
Diluted Book Value per Share*	34.04	28.10	21.1%

(*) Note: See Aspen's quarterly financial supplement for a reconciliation of operating income to net income and average equity to closing shareholders' equity in the Investor Relations section of Aspen's website at www.aspen.bm

Financial Highlights: Year ended December 31, 2009



(US\$ in millions, except per share data)

Year Ended December 31	2009	2008	Change
Gross Written Premiums	2,067.1	2,001.7	3.3%
Net Written Premiums	1,836.8	1,835.5	0.1%
Net Earned Premiums	1,823.0	1,701.7	7.1%
Underwriting Income	288.4	74.8	285.6%
Net Investment Income	248.5	139.2	78.5%
Net Income after Tax	473.9	103.8	356.6%

Financial Ratios

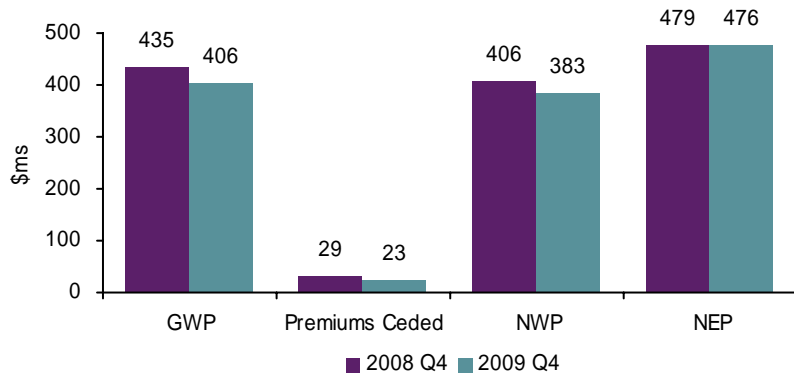
Loss Ratio	52.0%	65.8%	
Expense Ratio	32.1%	29.8%	
Combined Ratio	84.1%	95.6%	
Annualized Operating ROE*	18.0%	5.4%	
Operating EPS*	5.16	1.44	258.3%
Diluted Book Value per Share*	34.04	28.10	21.1%

(*) Note: See Aspen's quarterly financial supplement for a reconciliation of operating income to net income and average equity to closing shareholders' equity in the Investor Relations section of Aspen's website at www.aspen.bm

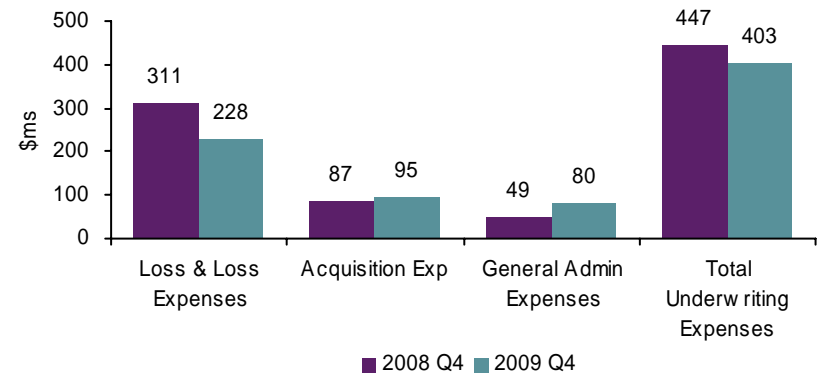
Financial Highlights: Group Summary Q4 2009



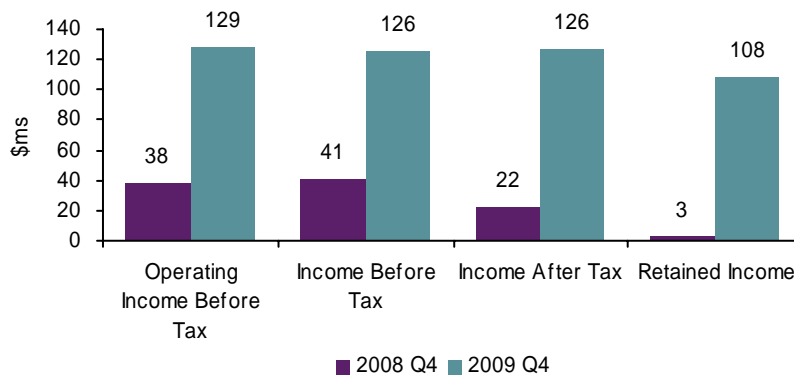
Underwriting Revenues



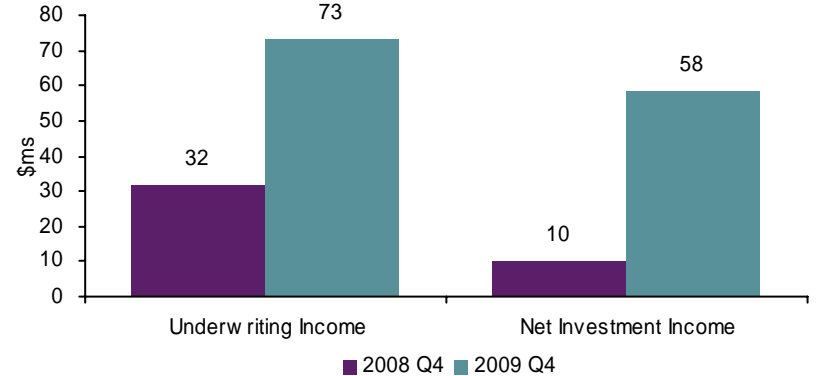
Underwriting Expenses



Income



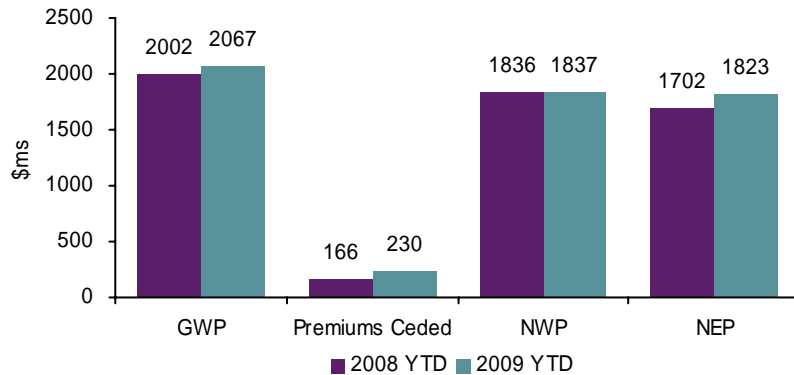
Contribution



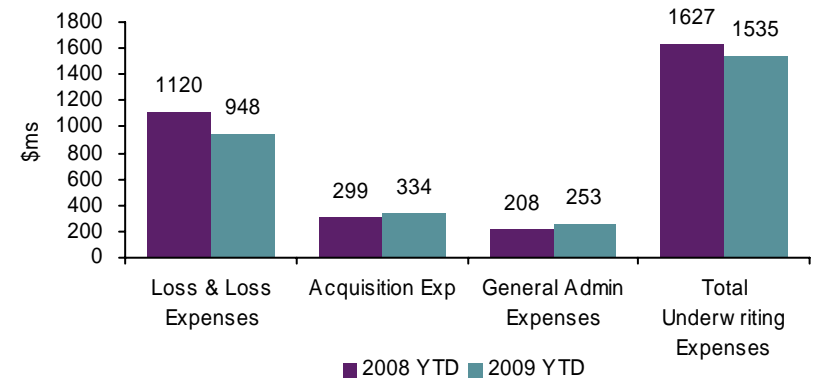
Financial Highlights: Group Summary Full Year 2009



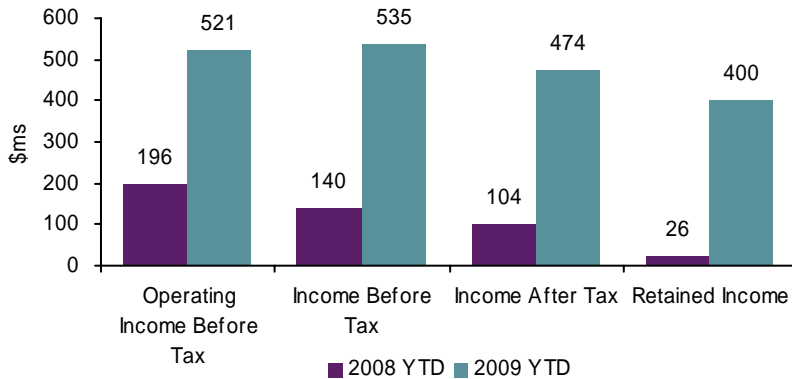
Underwriting Revenues



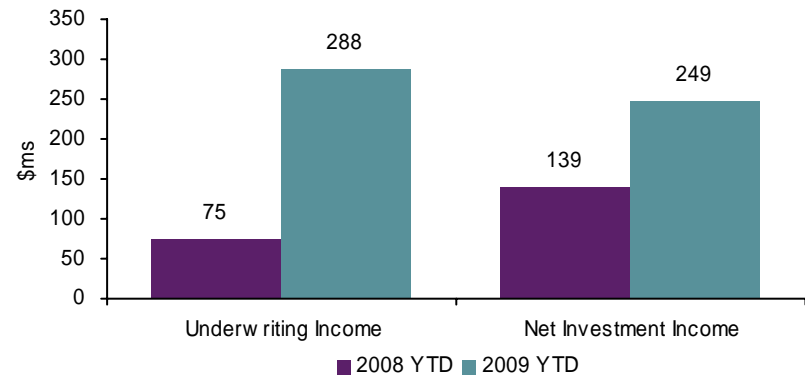
Underwriting Expenses



Income



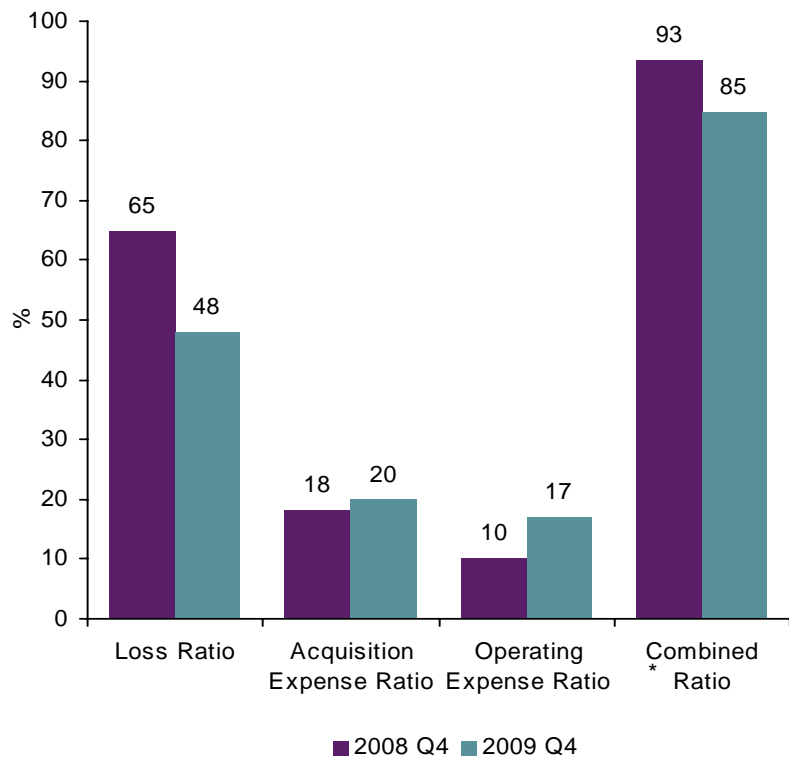
Contribution



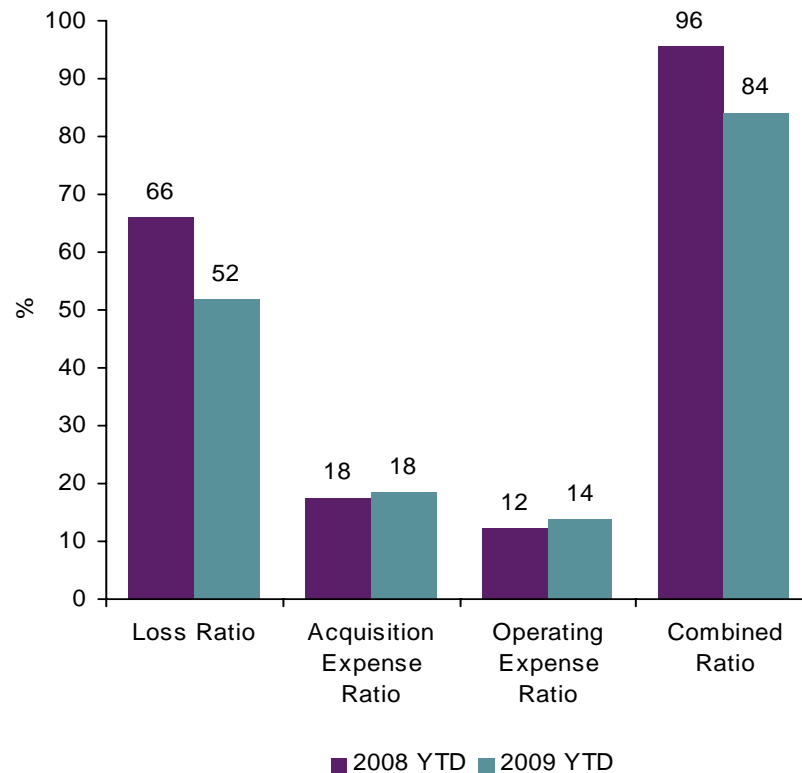
Key Performance Metrics: Q4 2009 and Full Year



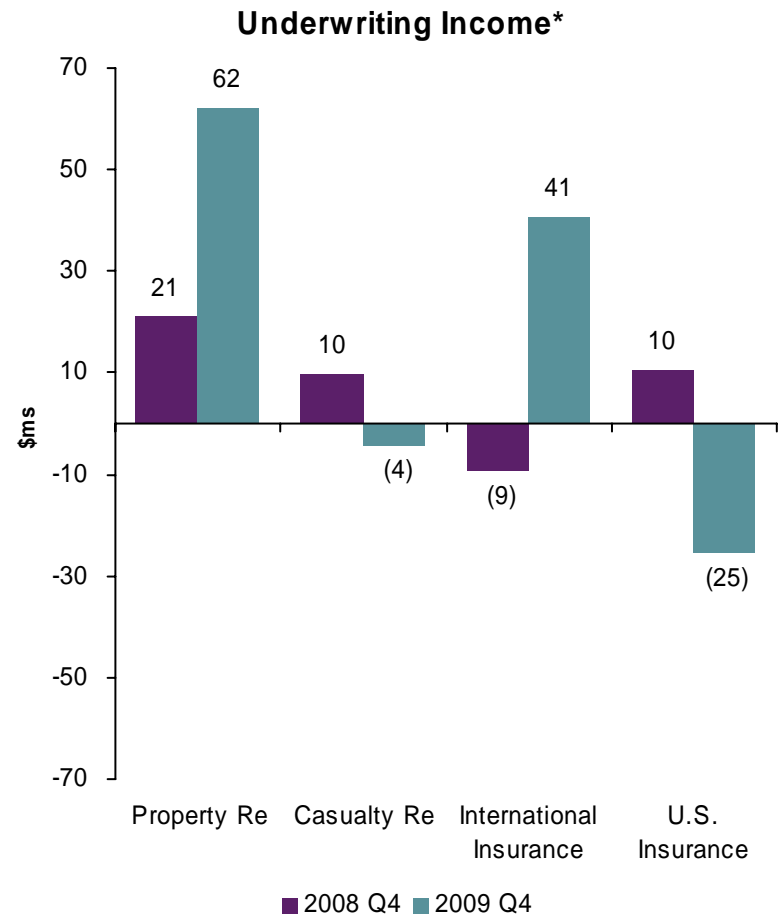
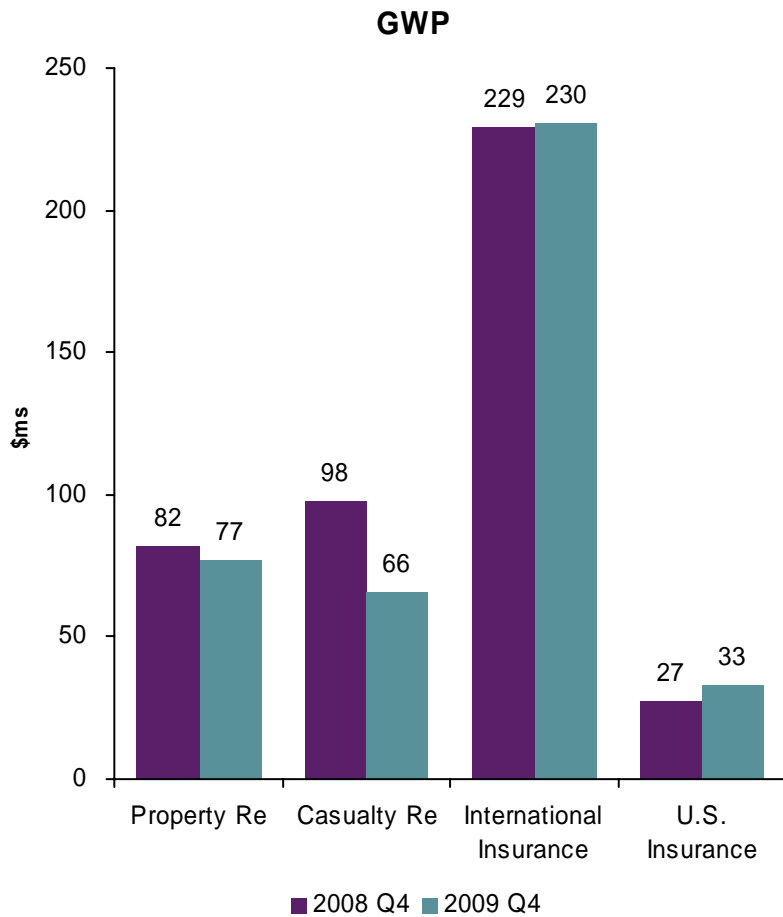
Ratio Analysis



Ratio Analysis

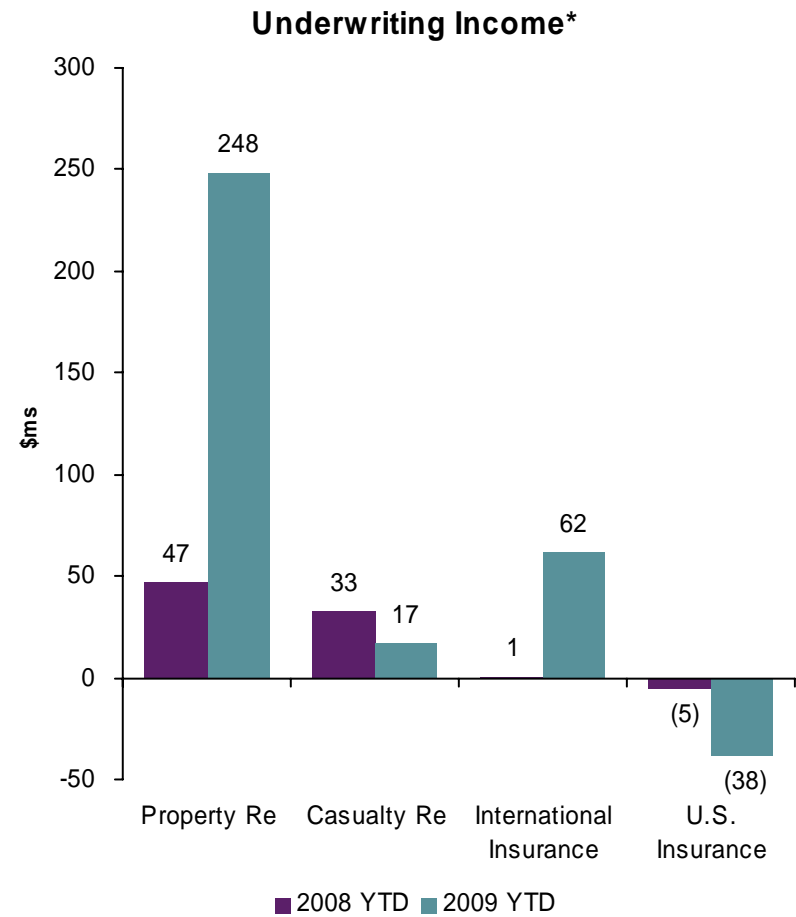
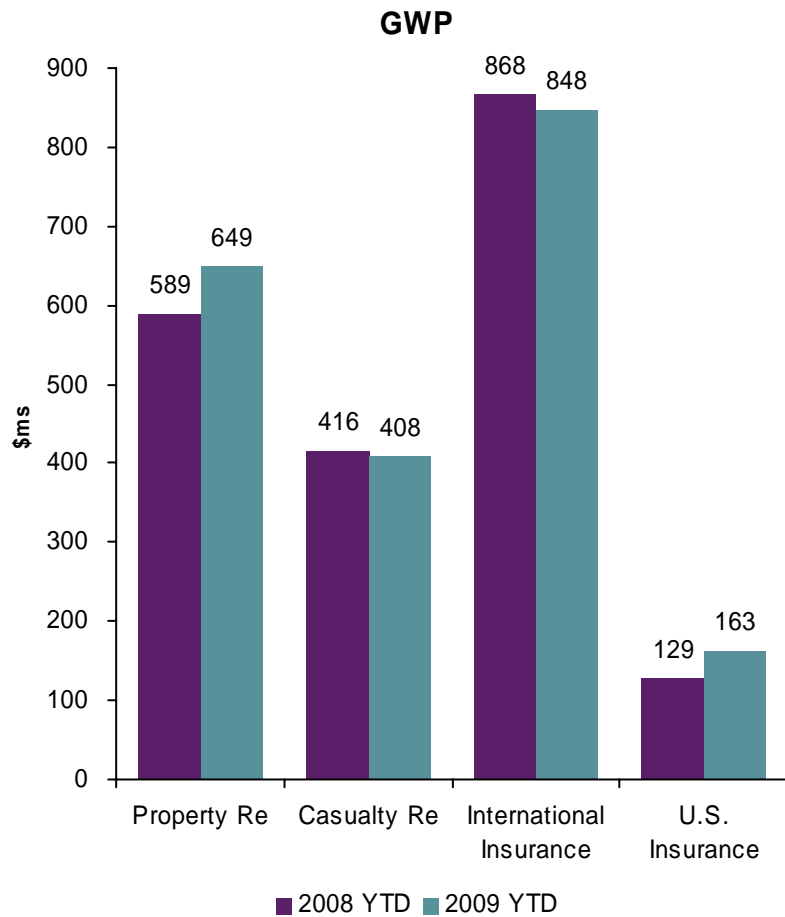


Results by Business Segment: Q4 2009



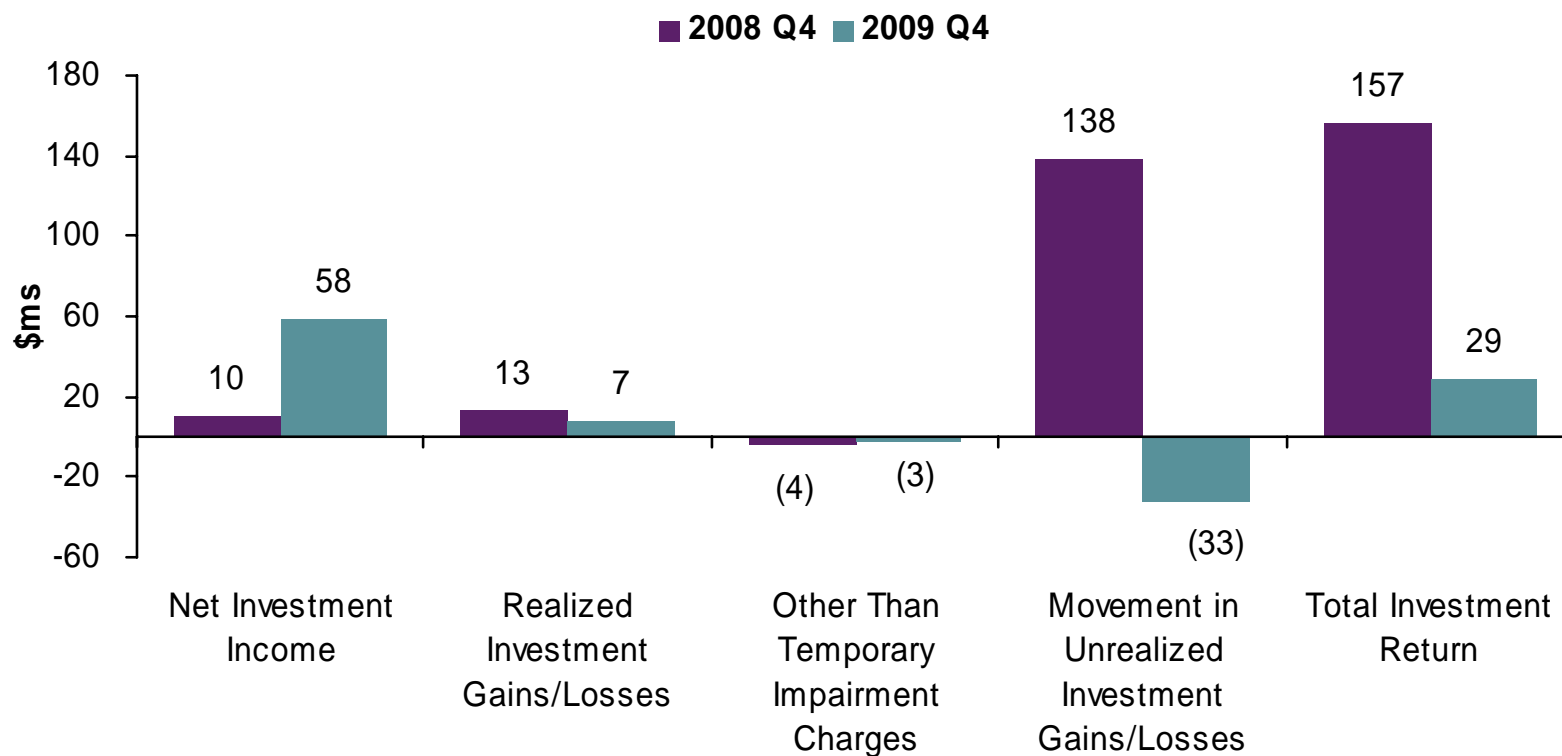
(*) Underwriting income is calculated as underwriting revenues, less underwriting expenses.

Results by Business Segment: Full Year 2009



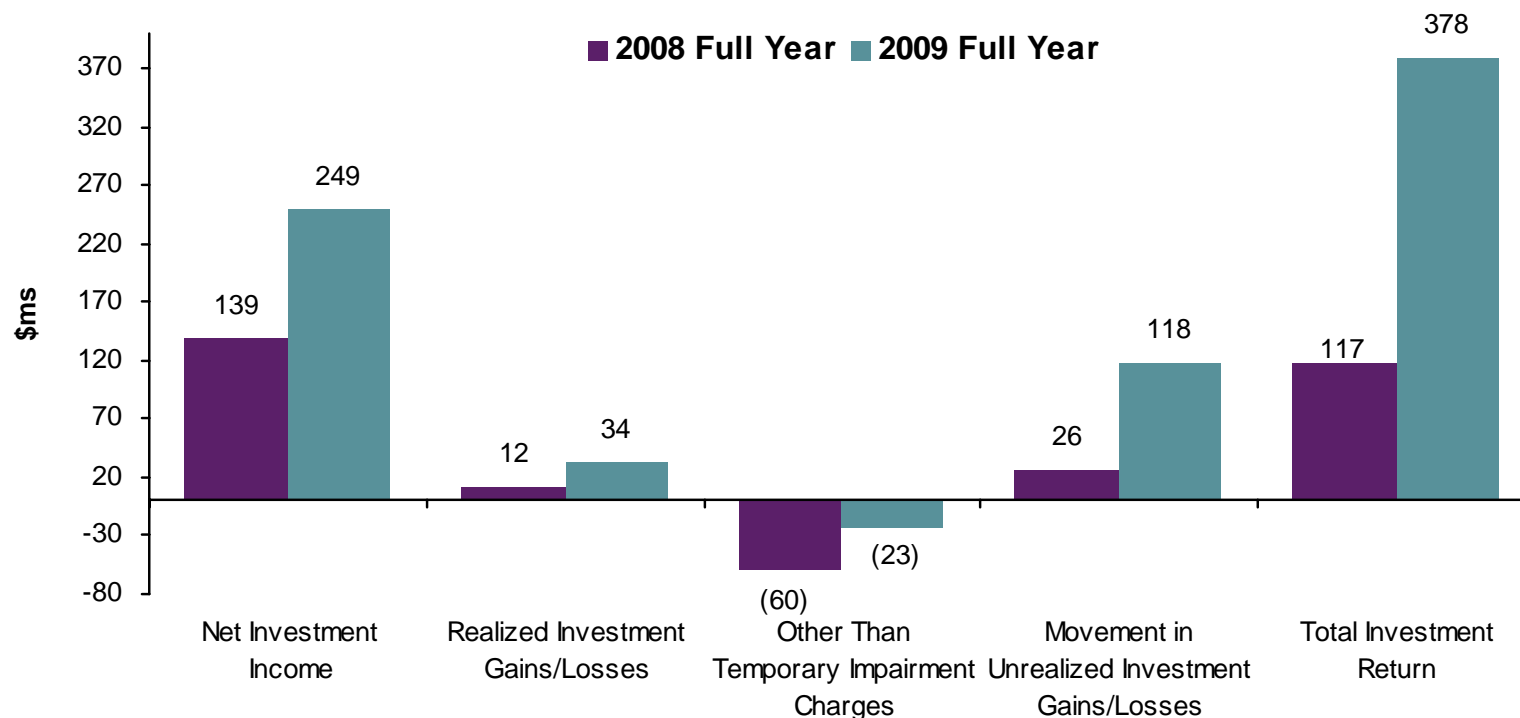
(*) Underwriting income is calculated as underwriting revenues, less underwriting expenses.

Financial Highlights: Total Investment Return – Q4 2009



Annualized investment return for the quarter of 1.8%

Financial Highlights: Total Investment Return - Full Year 2009



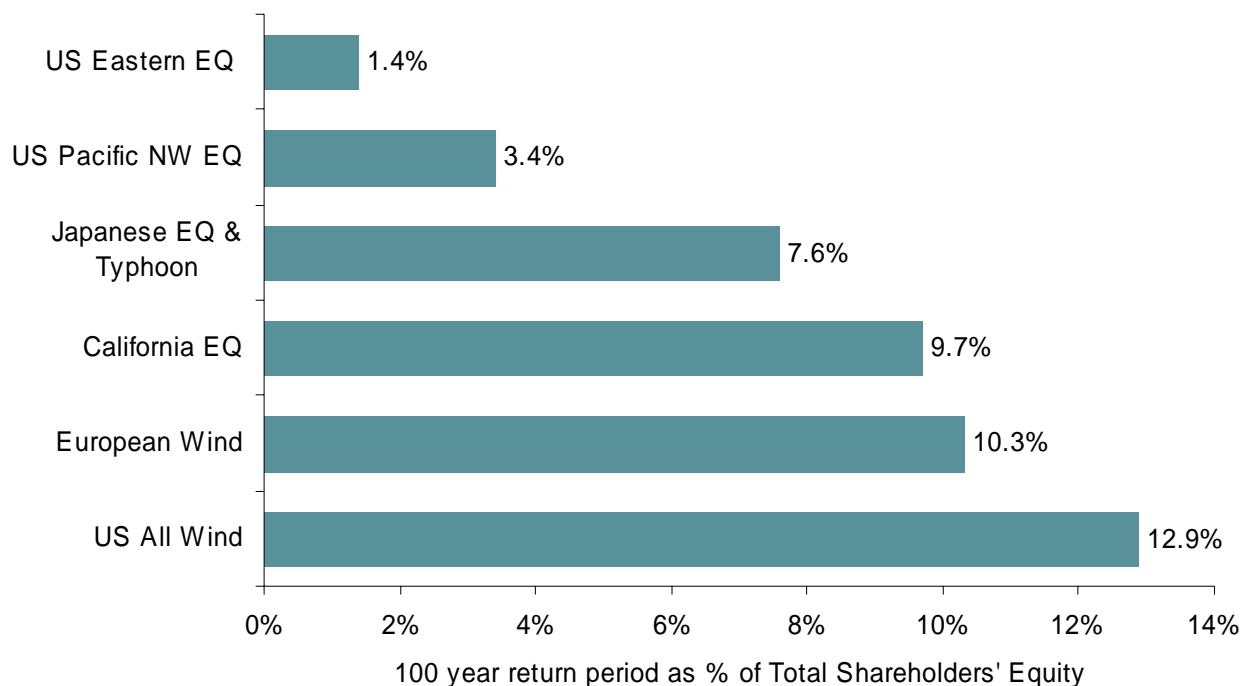
Total investment return for the year of 6.1%

(*) Aspen redeemed Funds of Hedge Funds as at June 30, 2009

Aspen's Modelled Worldwide Natural Catastrophe Exposures



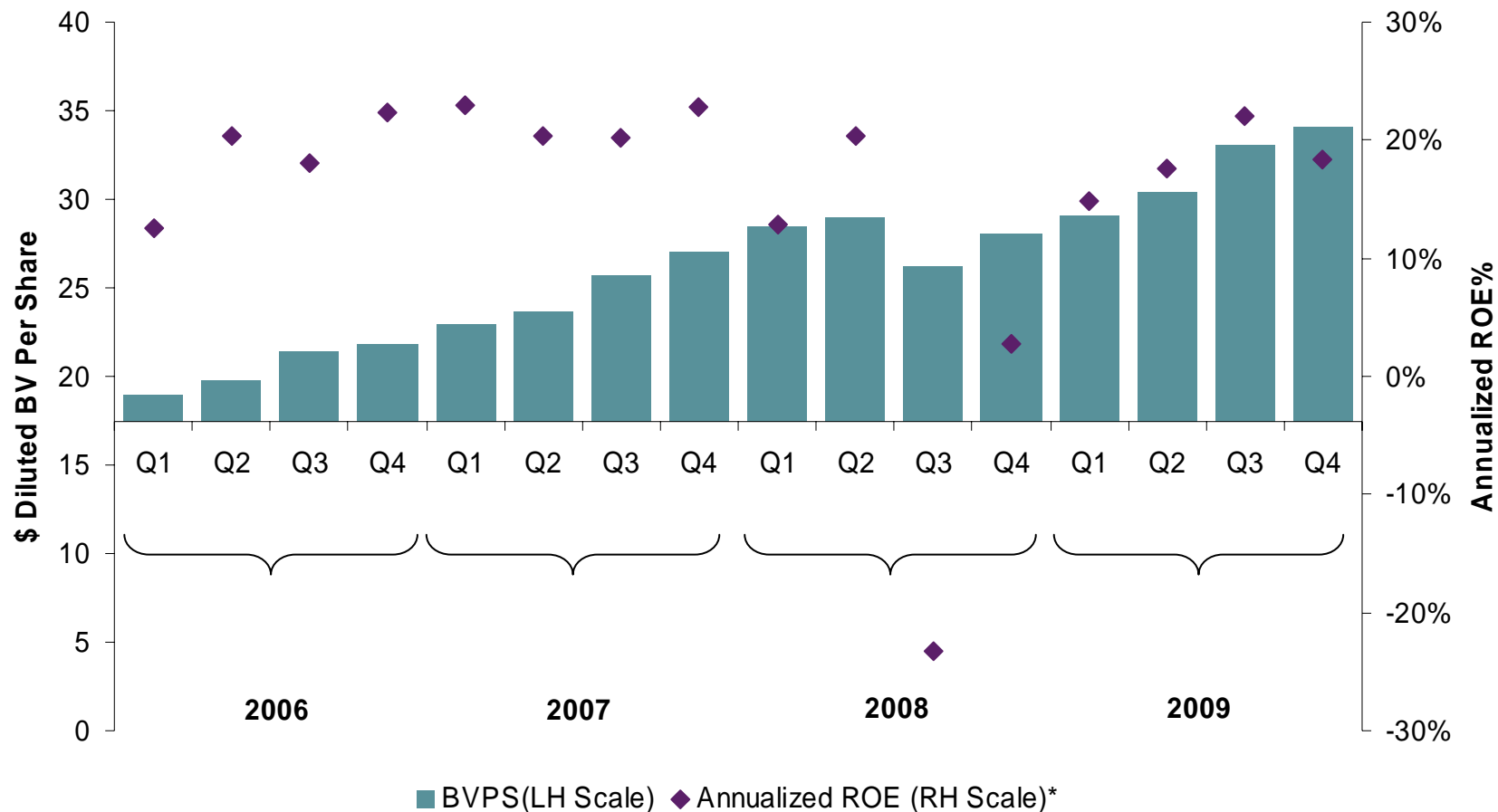
Aspen's Group Risk Tolerance for a 1-in-100 Year Event is 17.5% of Total Shareholders' Equity



Major Peril Zones, 100 Year Return Period as a Percentage Of Total Shareholders' Equity

Source: Aspen analysis using RMS v9.0 occurrence exceedance probability as at January 1, 2010 and Shareholders' Equity of \$3,305 million

Growth in Book Value Per Share and ROE



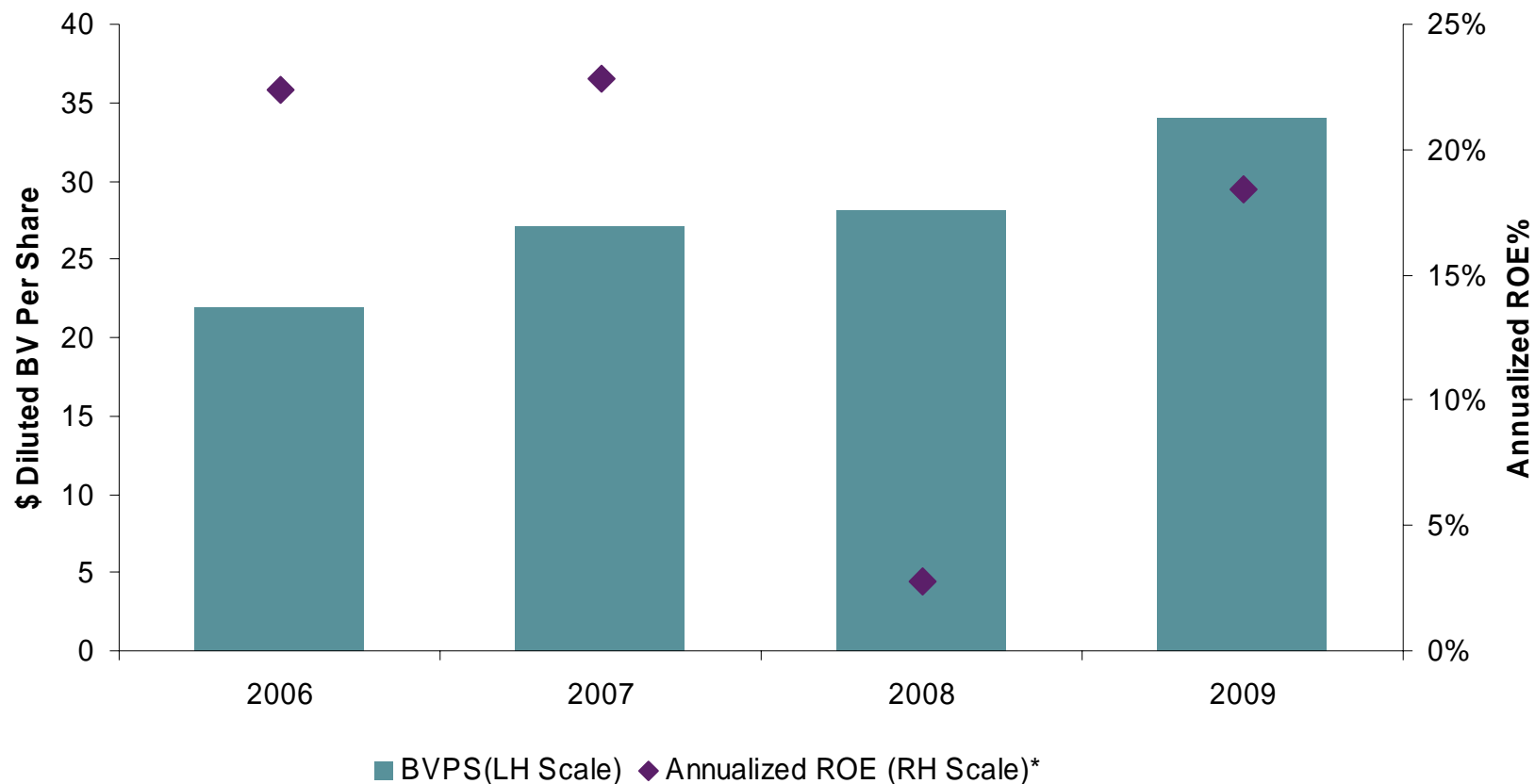
Diluted BVPS has increased 2.9% since September 30, 2009 and 21.1% since December 31, 2008

(*) Note: See Aspen's quarterly financial supplement for a reconciliation of diluted book value per share to basic book value per share, reconciliation of average equity to closing shareholders' equity in the Investor Relations section of Aspen's website at www.aspen.bm

Growth in Book Value Per Share and ROE



ASPEN



Diluted BVPS has increased 21.1% since December 31, 2008

(*) Note: See Aspen's quarterly financial supplement for a reconciliation of diluted book value per share to basic book value per share, reconciliation of average equity to closing shareholders' equity in the Investor Relations section of Aspen's website at www.aspen.bm

Fixed Income Portfolio by Asset Type



(US\$ in millions) As at December 31, 2009

ASSETS : INVESTMENT PORTFOLIO DECEMBER 31, 2009

TOTAL INVESTMENT PORTFOLIO AT MARKET VALUE

6,757.3

Cash, Short-Term Securities and FOHF		Government/Agency		Structured Securities		Unsecured Credit	
Short-term Securities	371.7	U.S. Government	514.0	Asset-backed securities	120.1	Corporate bonds	1,716.6
Cash and Cash Equivalents	748.4	Agency Debentures	389.5	Agency Rated Mortgage-backed securities (GNMA, FNMA, FHLB)	1,209.6	FDIC Guaranteed Corporate bonds	178.0
Other Investments (Cartesian Iris)	27.3	Foreign governments	527.3	Non-Agency Rated Mortgage-backed securities		Foreign corporates	440.2
Hedge Fund Receivable	11.9			- CMBS	180.0	Bonds backed by foreign government	259.2
				- RMBS	42.2	Municipal bonds	21.3
2009	1,159.3		1,430.8		1,551.9		2,615.3
2008	1,498.1		1,428.3		1,572.3		1,432.5

74% of the Fixed Income Portfolio 'AA' or Better, Total Investment Assets Average 'AA+'

2010 Guidance

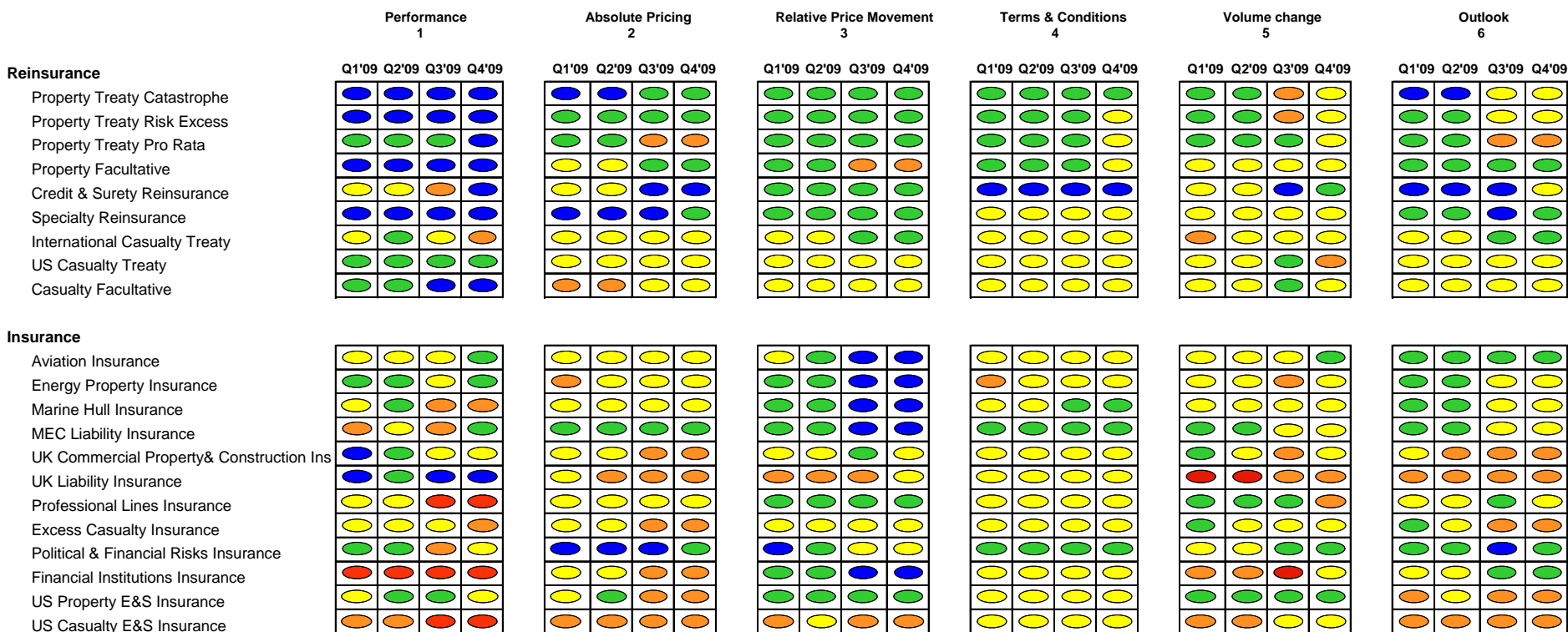


	Guidance October 29, 2009	2009 Actual Results	Guidance February 9, 2010
Gross Written Premium	\$2 billion ± 5%	\$2.1 billion	\$2.2 billion ± 5%
% Premium Ceded	10% - 12% of GEP	10.4% of GEP	8% - 12% of GEP
Combined Ratio	84% - 88%	84.1%	88% - 94%
Tax Rate	13% to 16%	11.4%	10% to 14%
Cat-Load	\$40 million (assuming normal loss experience)	Nil	\$170 million (assuming normal loss experience)



Business Performance and Market Outlook Q4'09* A S P E N

Information reflecting Aspen's portfolios



*MEC - Marine, Energy & Construction

1 - 12 months rolling RORAC

2 - Ratio of Actual to Technical (or modelled) price






3 - Relative Price Movement for all in-force renewed contracts for YTD

4 - Terms and Conditions

5 - Change in rolling GWP for last 4 quarters vs. rolling GWP from previous 4 quarters

6 - Outlook (Absolute Pricing * Forecast Relative Price Movement)

Business Performance and Market Outlook: Key

Key	Performance	Absolute Pricing	Relative Price Movement	Terms and Conditions	Volume change	Outlook
	1	2	3	4	5	6
	Excellent	Excellent	Significantly Up	Excellent	Significantly Up	Excellent
	Good	Good	Up	Good	Up	Good
	Satisfactory	Satisfactory	Flat	Satisfactory	Flat	Satisfactory
	Of Concern	Of Concern	Down	Of Concern	Down	Of Concern
	Unsatisfactory	Unsatisfactory	Significantly Down	Unsatisfactory	Significantly Down	Unsatisfactory