Financial Crisis, Recession, Stimulus & the Future of the P/C Insurance Industry

Trends, Challenges & Opportunities

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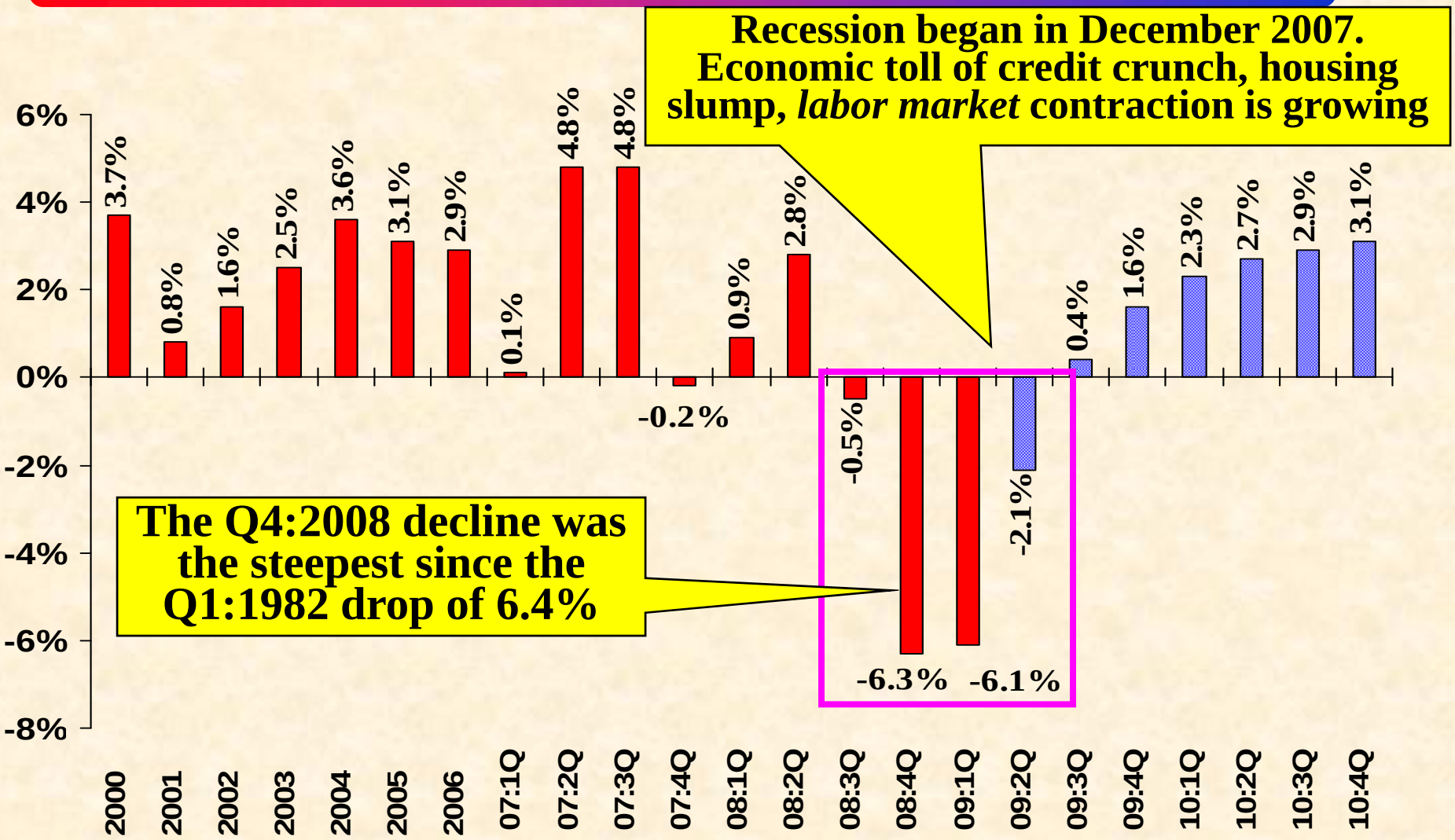
Presentation Outline

- **Financial Crisis & The Weakening Economy: Insurance Impacts for the P/C Insurance Industry**
  - **Recession, Growth & Insurance**
  - **Economic Stimulus Package Impacts**
- **Aftershock: The P/C Insurance Landscape After the Crisis**
  - **Impacts & Implications for P/C Insurers**
- **Top 10 Threats/Issues Facing P/C Insurers**
- **Financial Strength & Ratings**
  - **Critical Differences Between P/C Insurers and Banks**
- **P/C Insurance Industry Overview & Outlook**
  - **Profitability**
  - **Premium Growth**
  - **Underwriting Performance**
  - **Financial Market Impacts**
- **Capital & Capacity**
- **Catastrophe Losses**

THE ECONOMIC STORM

What the Financial Crisis and Deep Recession Mean for the P/C Insurance Industry

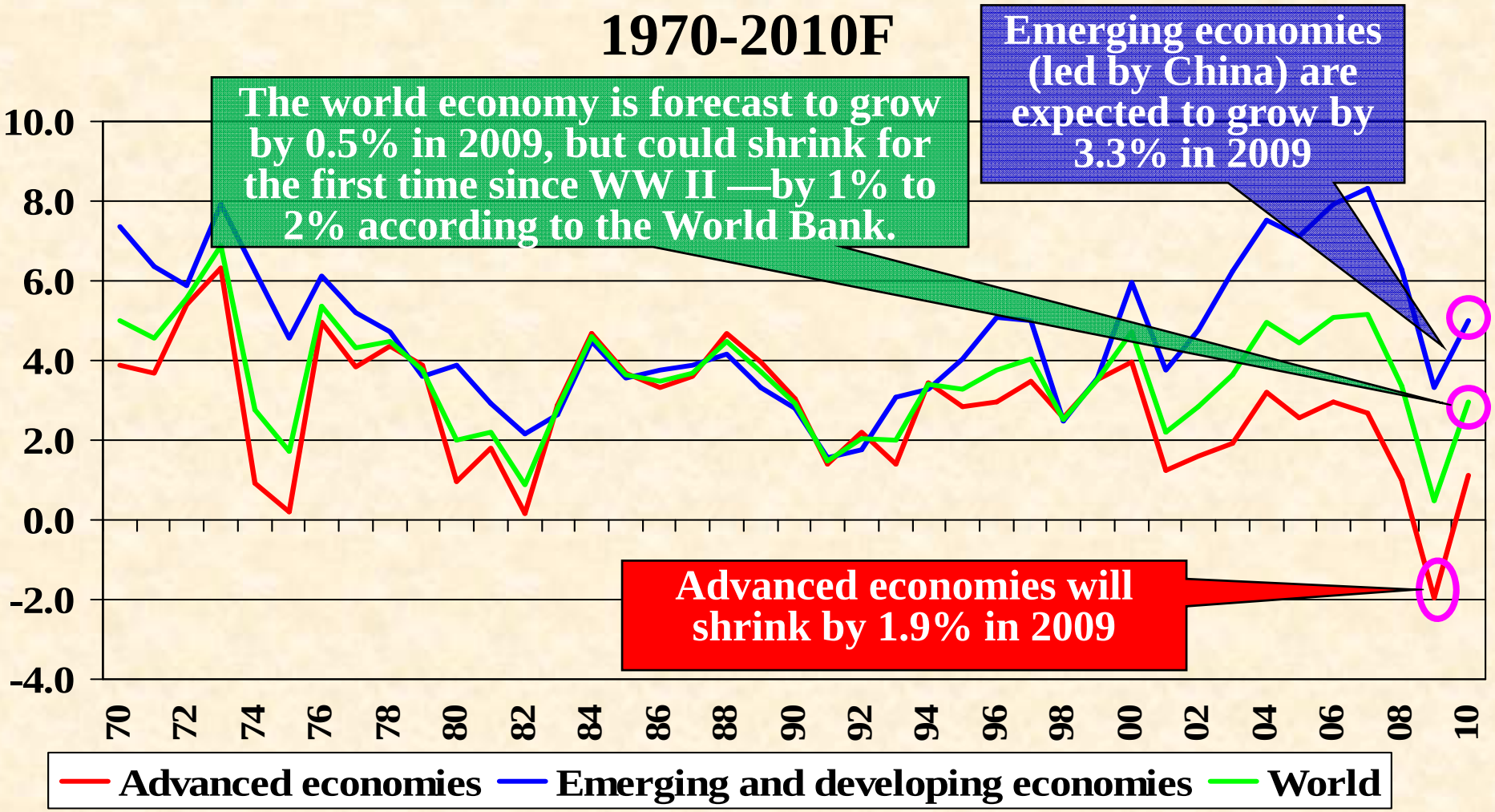
*Real GDP Growth**



*Blue bars are Estimates/Forecasts from Blue Chip Economic Indicators.

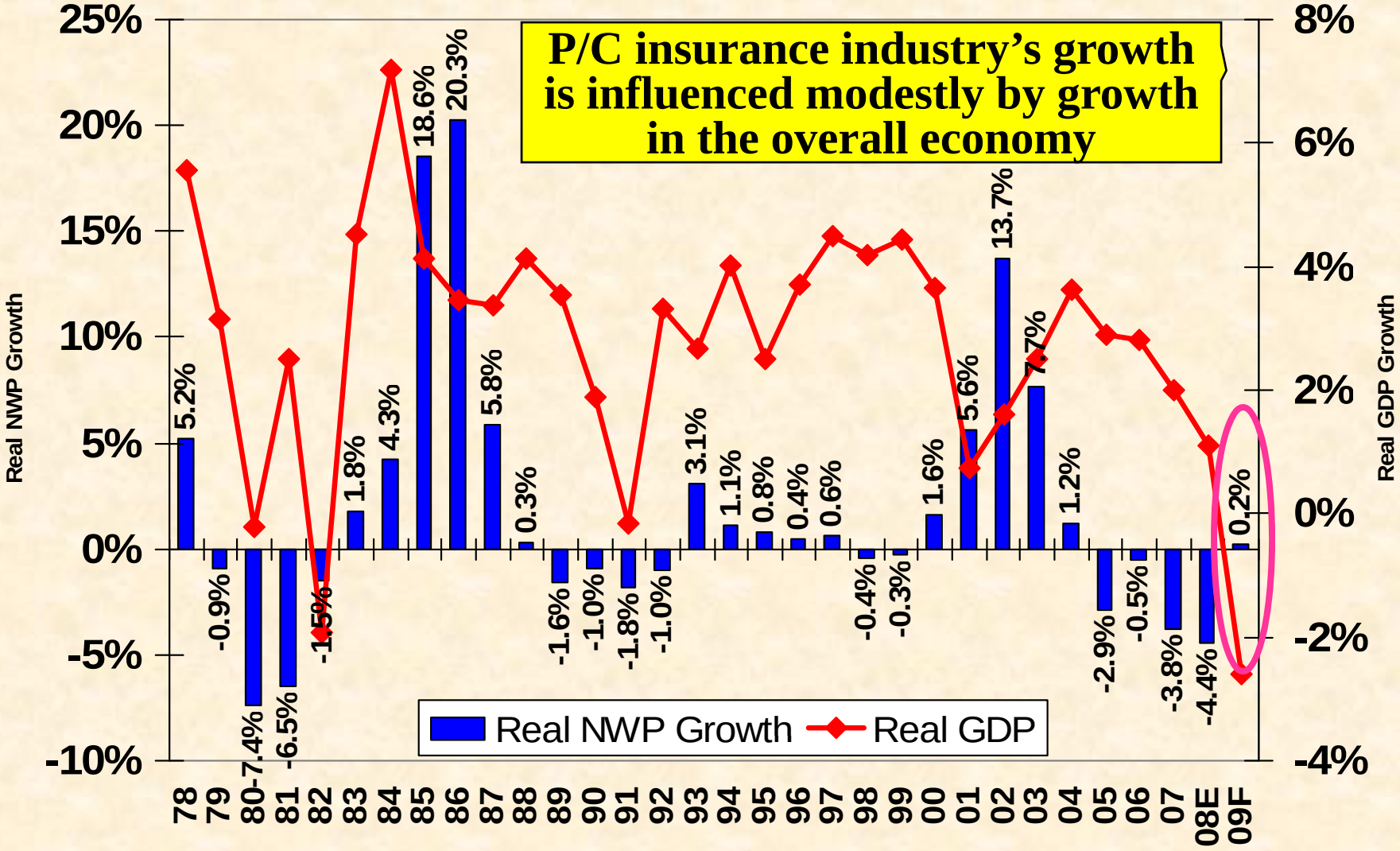
Source: US Department of Commerce, Blue Economic Indicators 4/09; Insurance Information Institute.

GDP Growth: Advanced & Emerging Economies vs. World



Source: International Monetary Fund, World Economic Outlook Update, Jan. 28, 2009; Ins. Info. Institute.

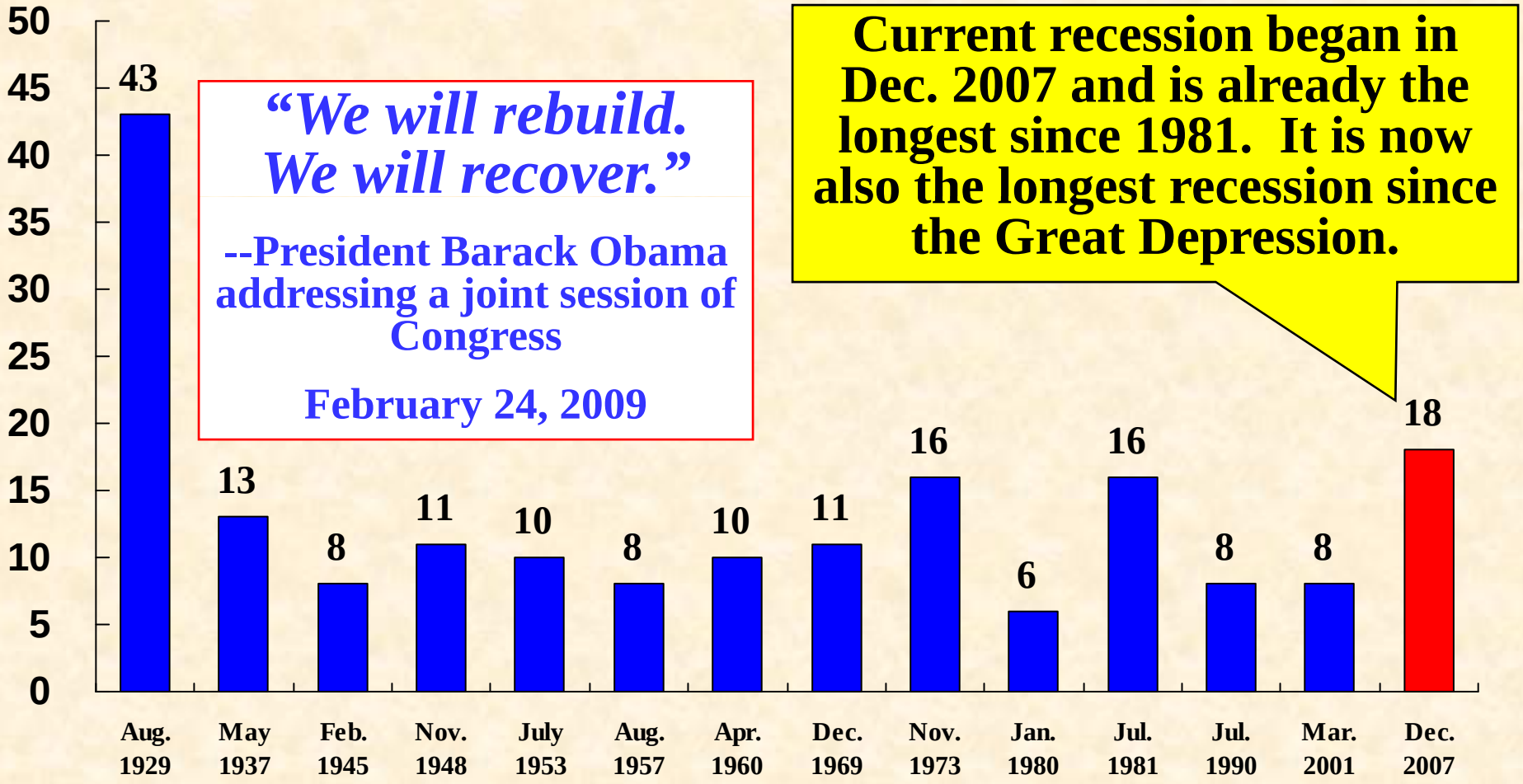
Real GDP Growth vs. Real P/C Premium Growth: Modest Association



Sources: A.M. Best, US Bureau of Economic Analysis, Blue Chip Economic Indicators, 4/09; Insurance Information Inst.

*Length of US Recessions, 1929-Present**

Months in Duration



"We will rebuild. We will recover."

--President Barack Obama addressing a joint session of Congress

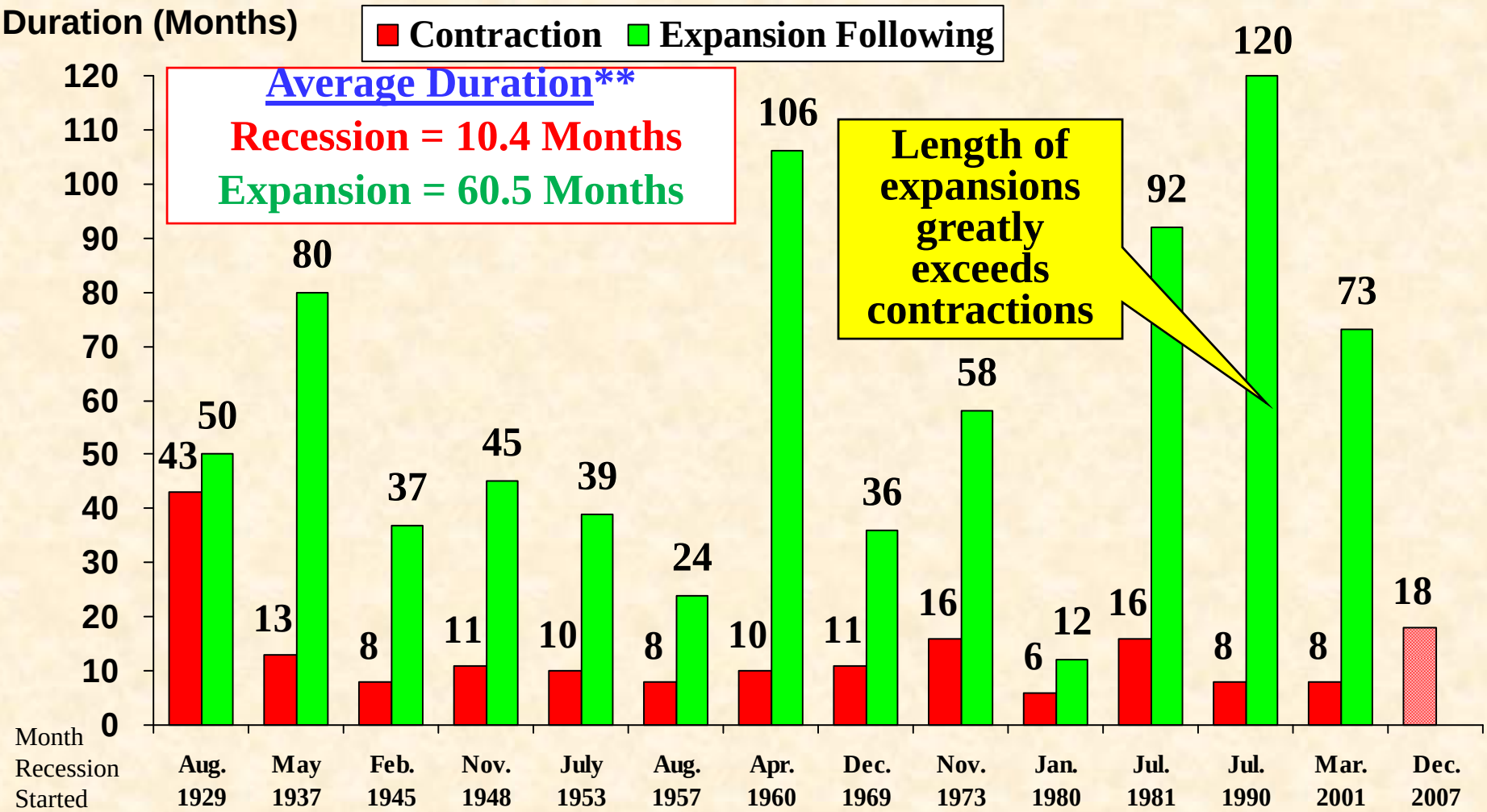
February 24, 2009

Current recession began in Dec. 2007 and is already the longest since 1981. It is now also the longest recession since the Great Depression.

* As of May 2009, inclusive

Sources: National Bureau of Economic Research; Insurance Information Institute.

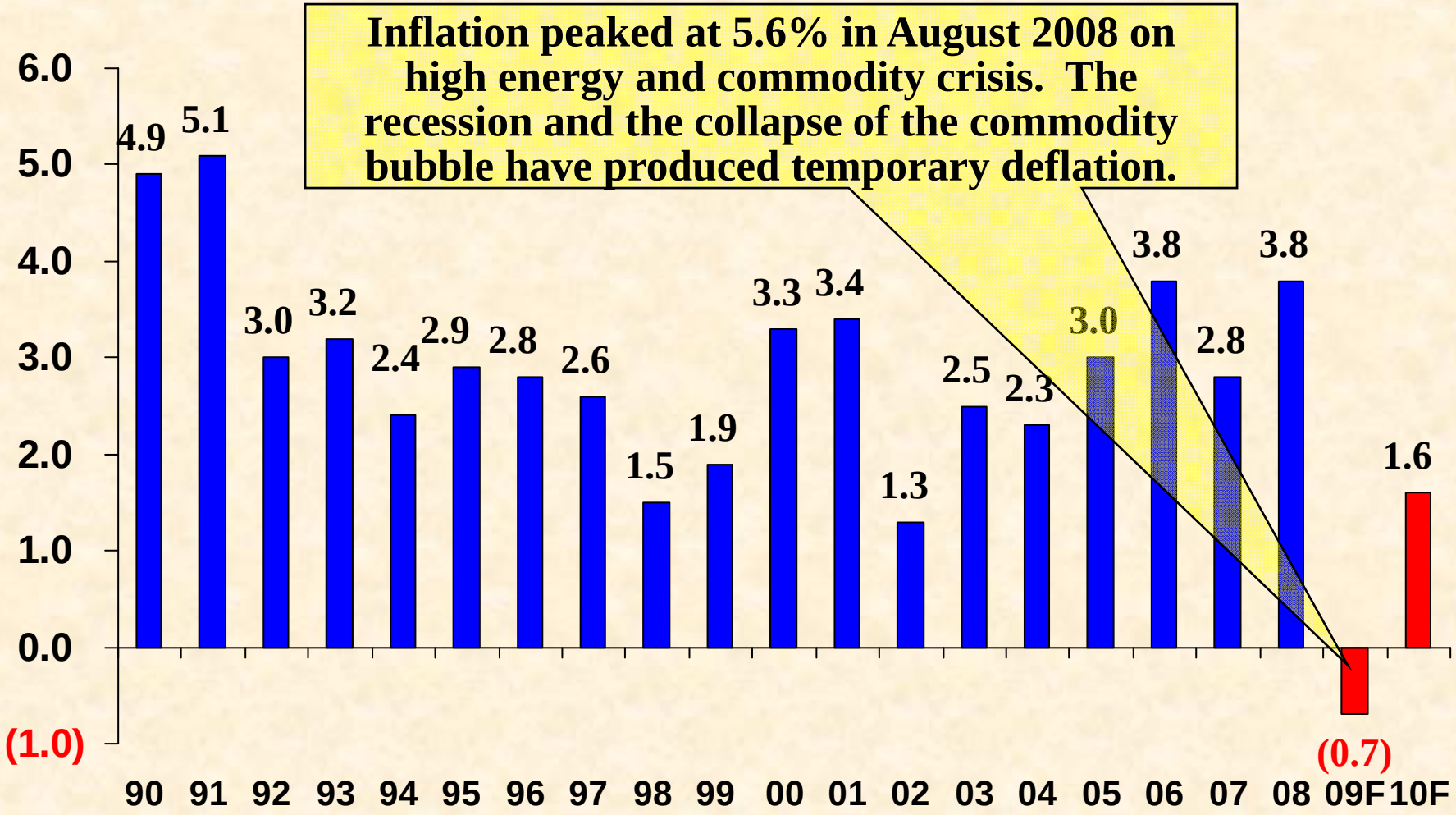
*Length of U.S. Business Cycles, 1929-Present**



* As of May 2009, inclusive; **Post-WW II period through end of most recent expansion.

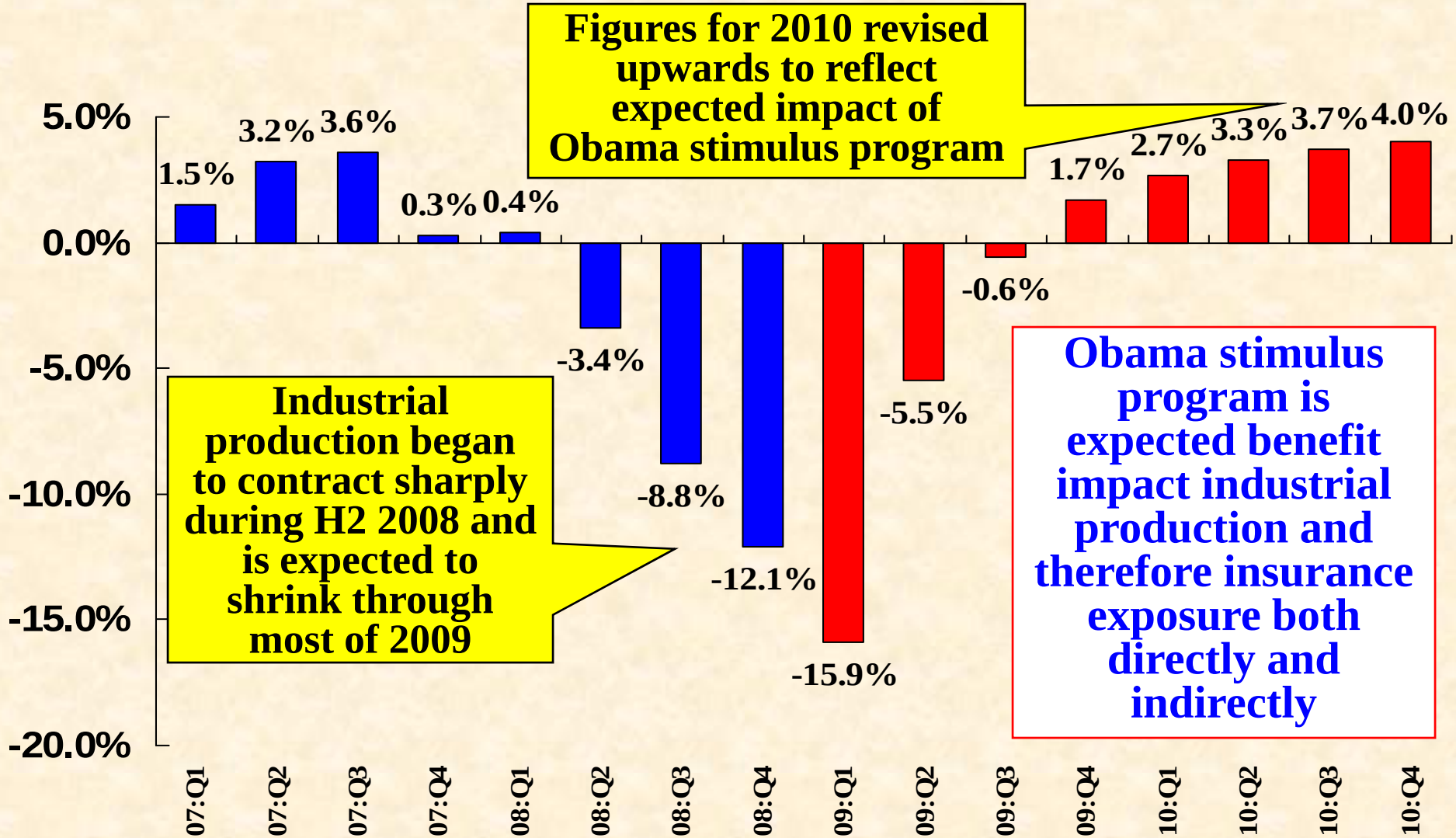
Sources: National Bureau of Economic Research; Insurance Information Institute.

Annual Inflation Rates (CPI-U, %), 1990-2010F



Sources: US Bureau of Labor Statistics; Blue Chip Economic Indicators, April 10, 2009 (forecasts).

Total Industrial Production, (2007:Q1 to 2010:Q4F)



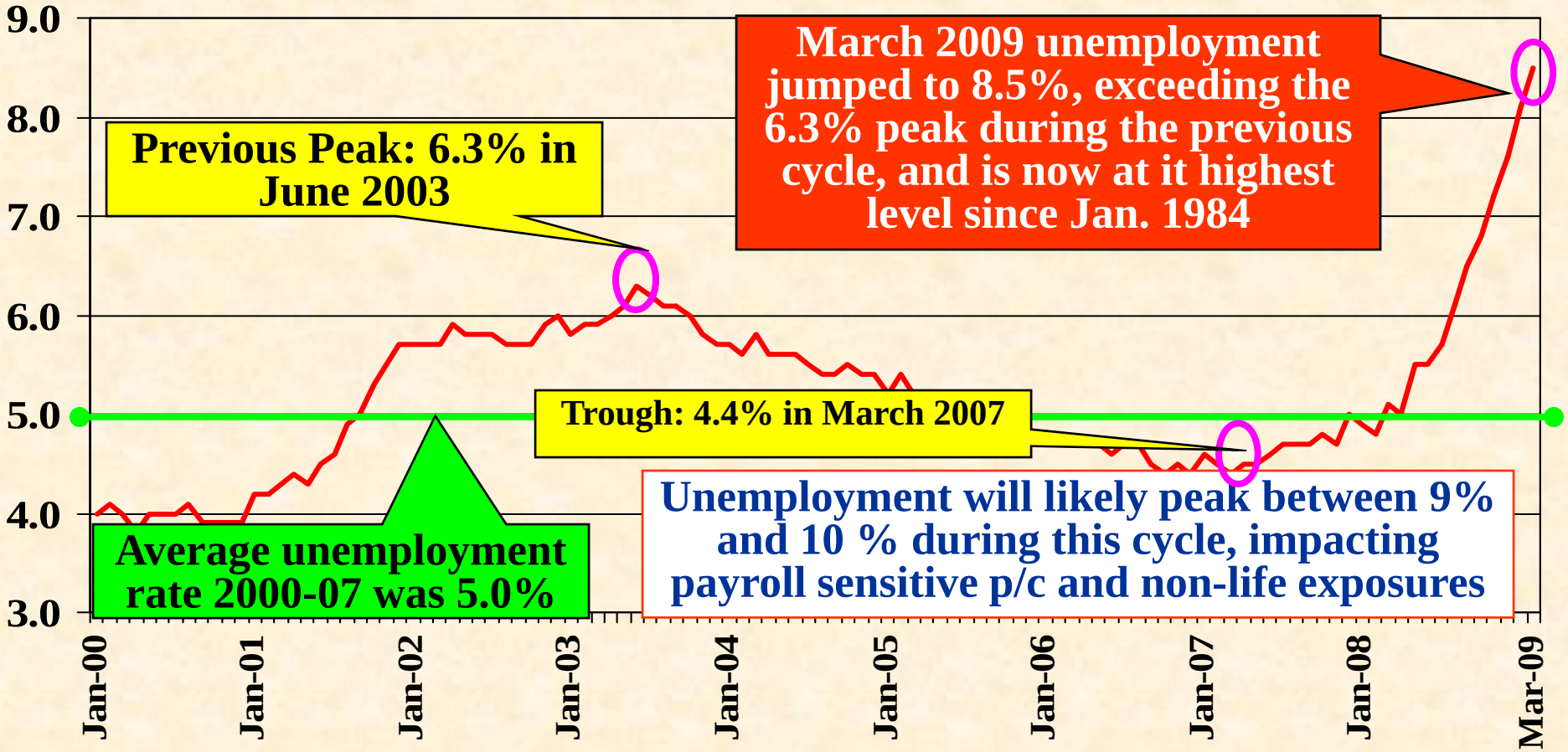
Sources: US Bureau of Labor Statistics; Blue Chip Economic Indicators (4/09); Insurance Info. Inst.

Labor Market Trends

Fast & Furious: Massive Job Losses Sap the Economy and Workers Comp Exposure

Unemployment Rate: On the Rise

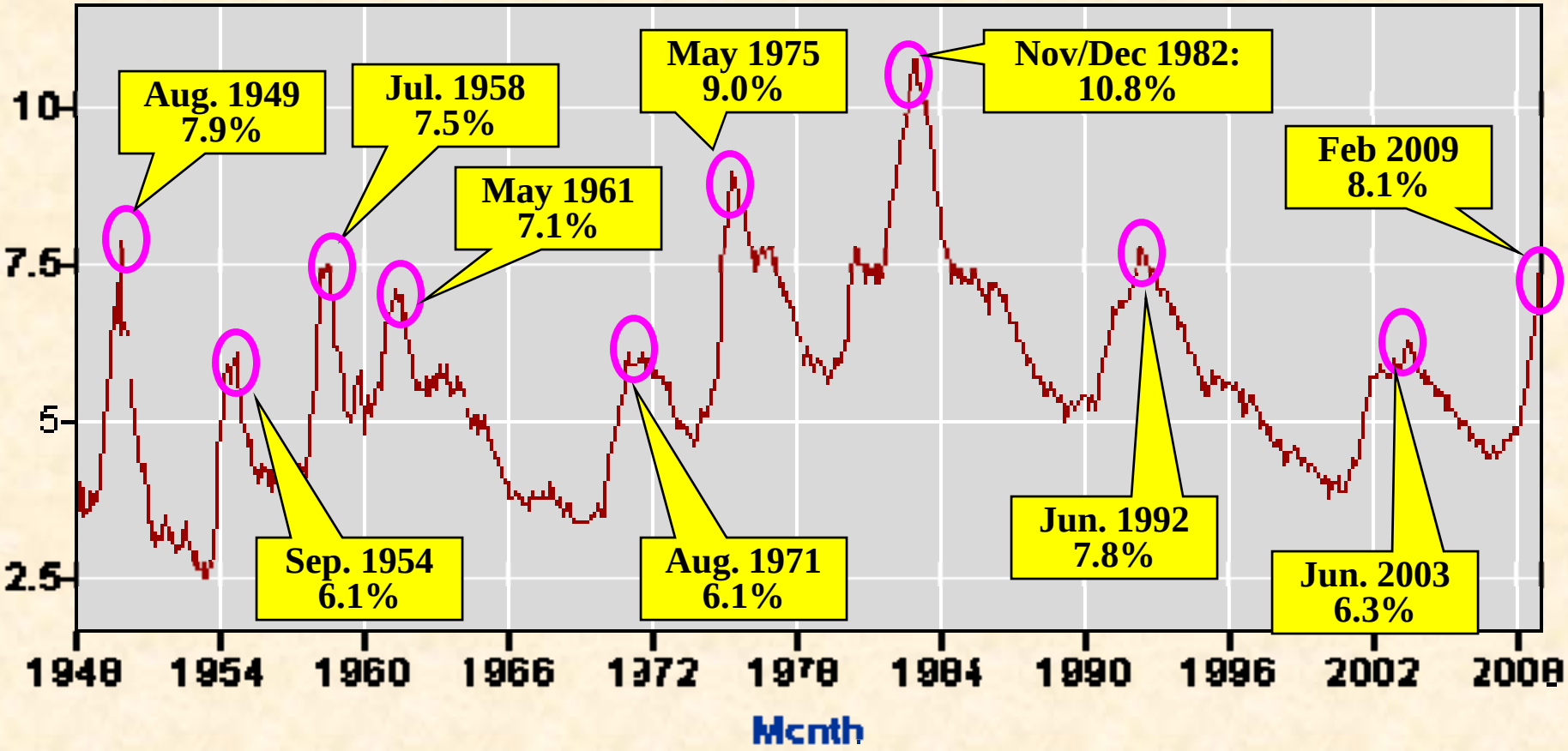
January 2000 through March 2009



Source: US Bureau of Labor Statistics; Insurance Information Institute.

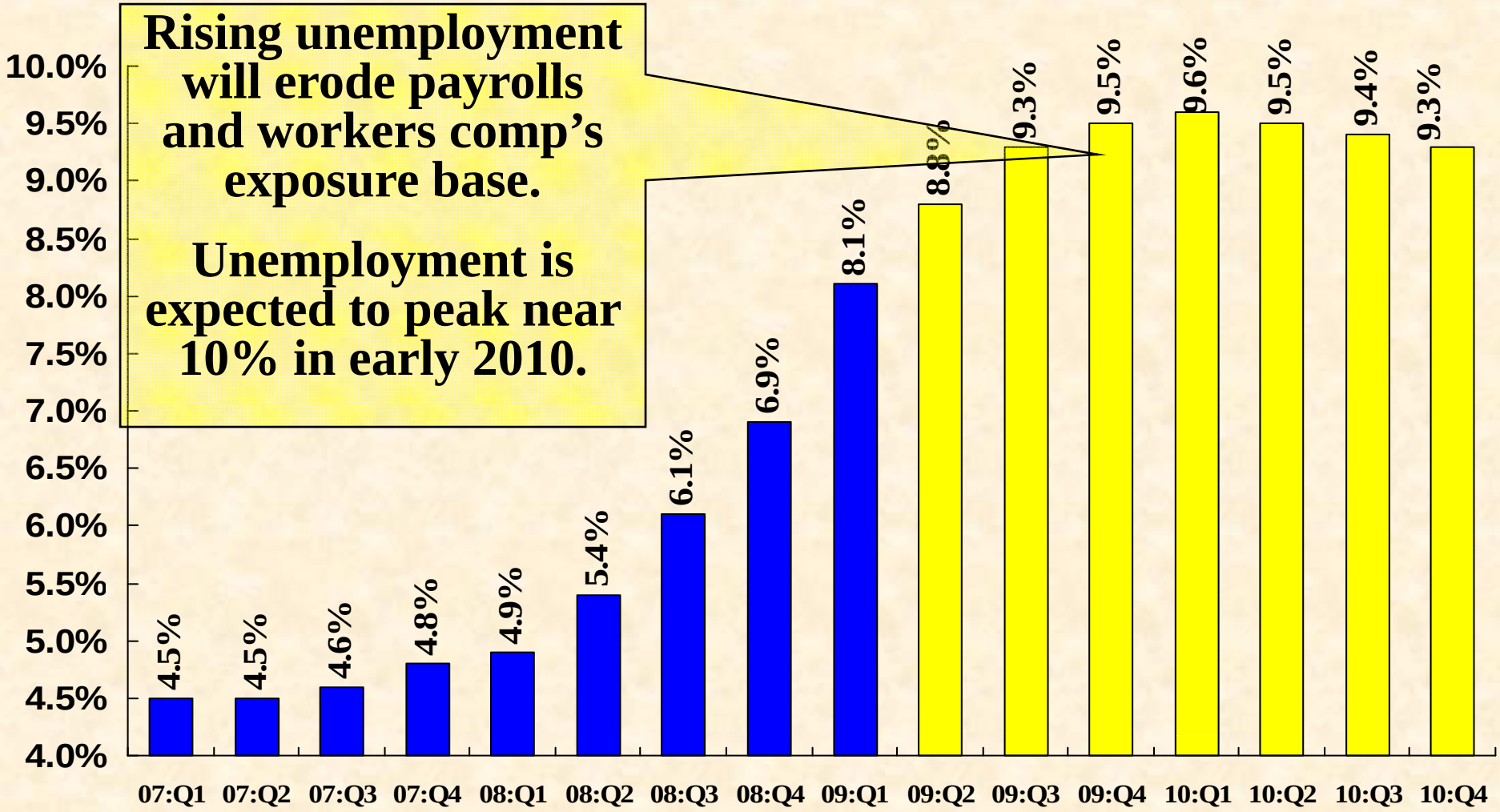
US Unemployment Rate: A Volatile History ***(update)***

January 1948 through February 2009



Source: US Bureau of Labor Statistics; Insurance Information Institute.

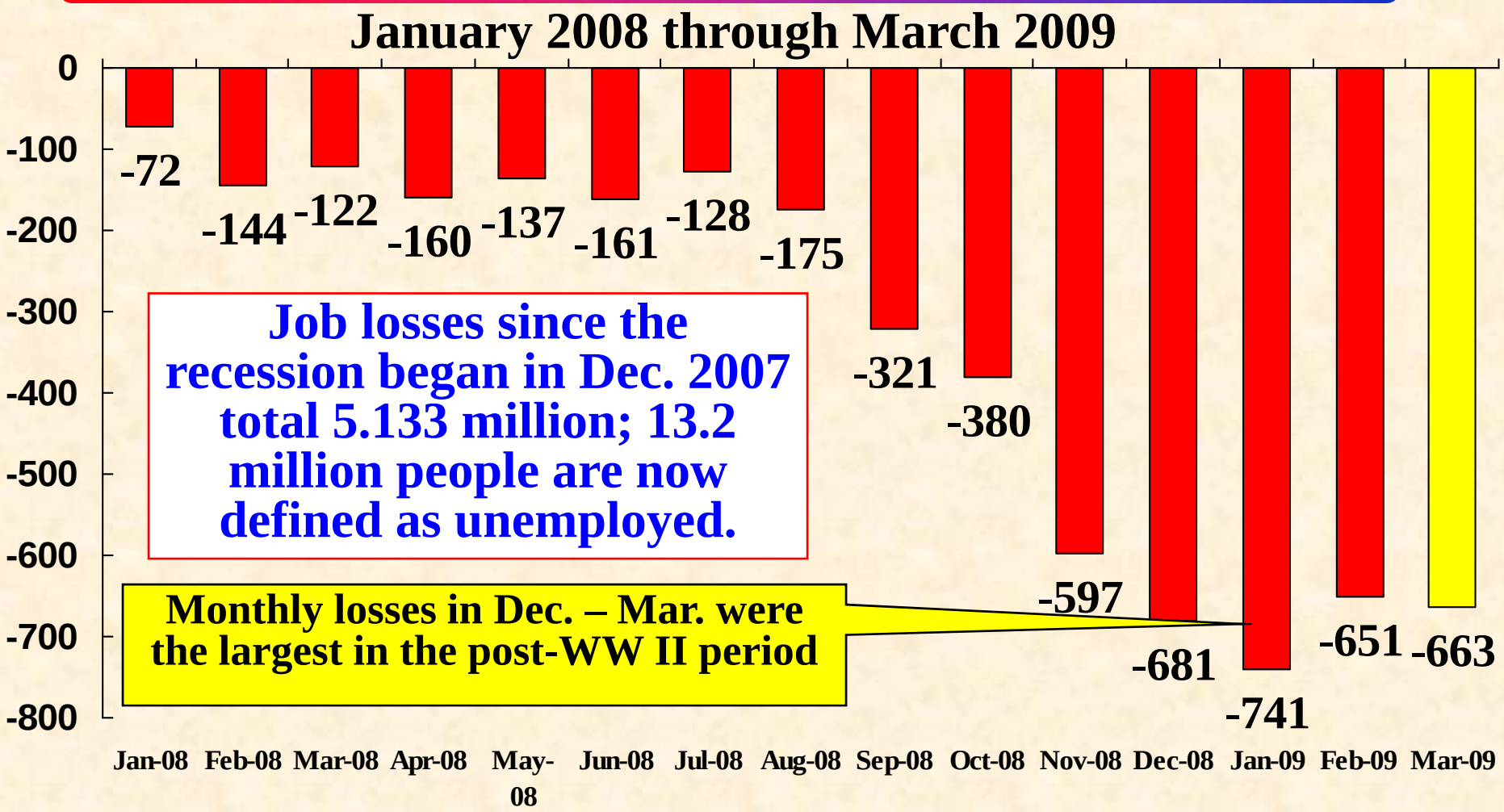
*U.S. Unemployment Rate, (2007:Q1 to 2010:Q4F)**



* Blue bars are actual; Yellow bars are forecasts

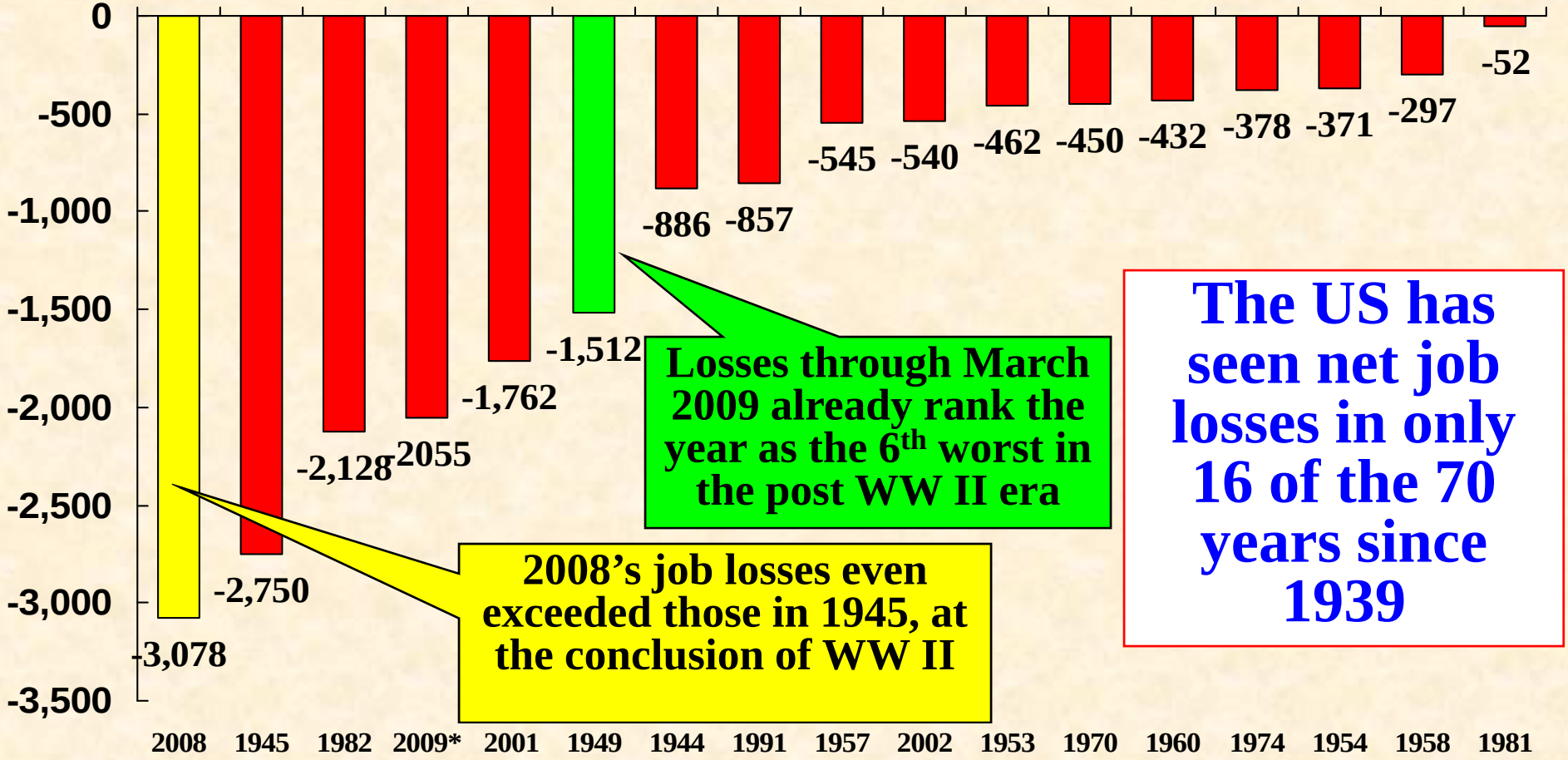
Sources: US Bureau of Labor Statistics; Blue Chip Economic Indicators (4/09); Insurance Info. Inst.

Monthly Change Employment (Thousands)*



Source: US Bureau of Labor Statistics: http://www.bls.gov/ces/home.htm; Insurance Info. Institute

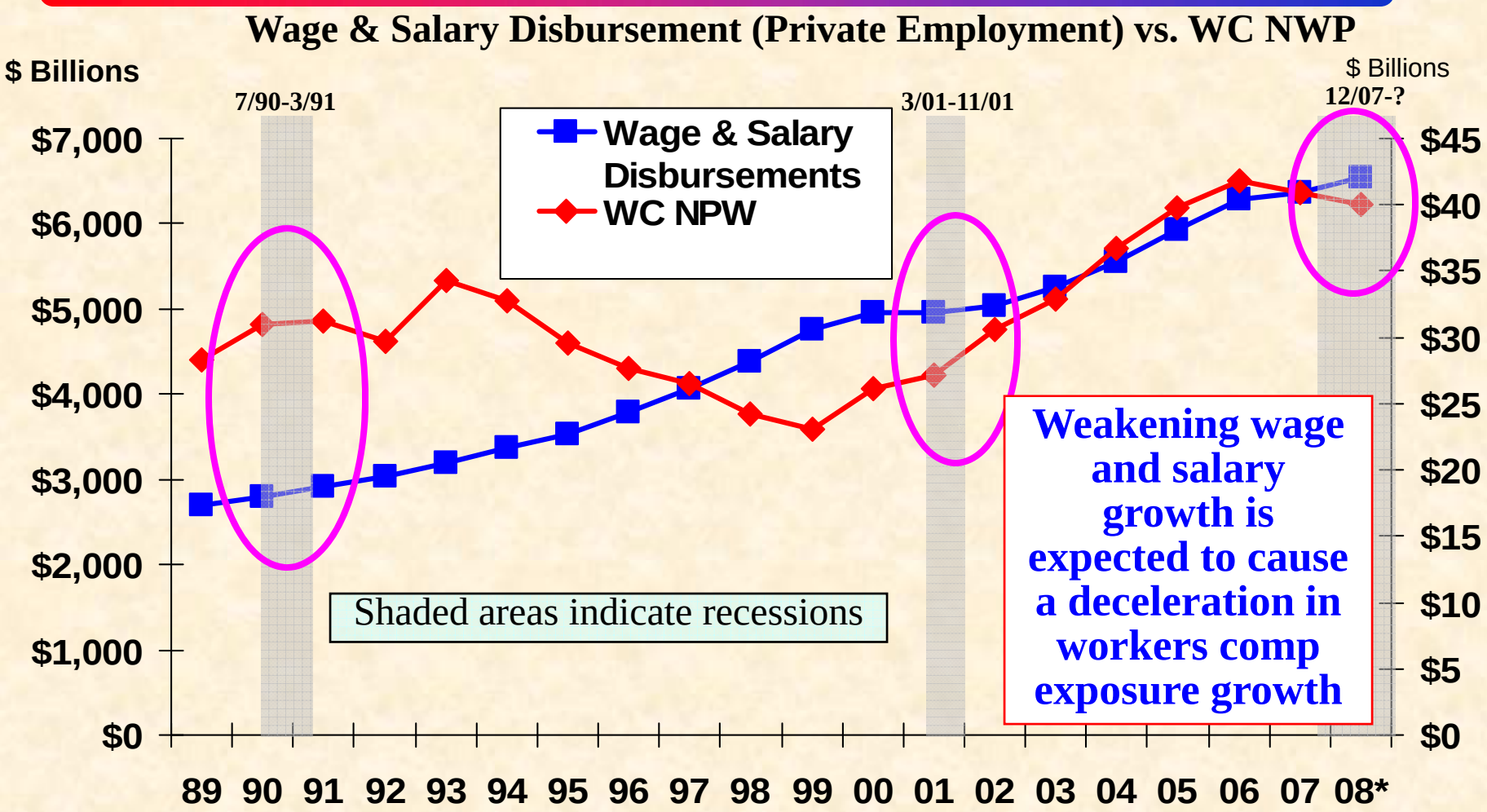
Years With Job Losses: 1939-2009 (Thousands)*



*Through March 2009.

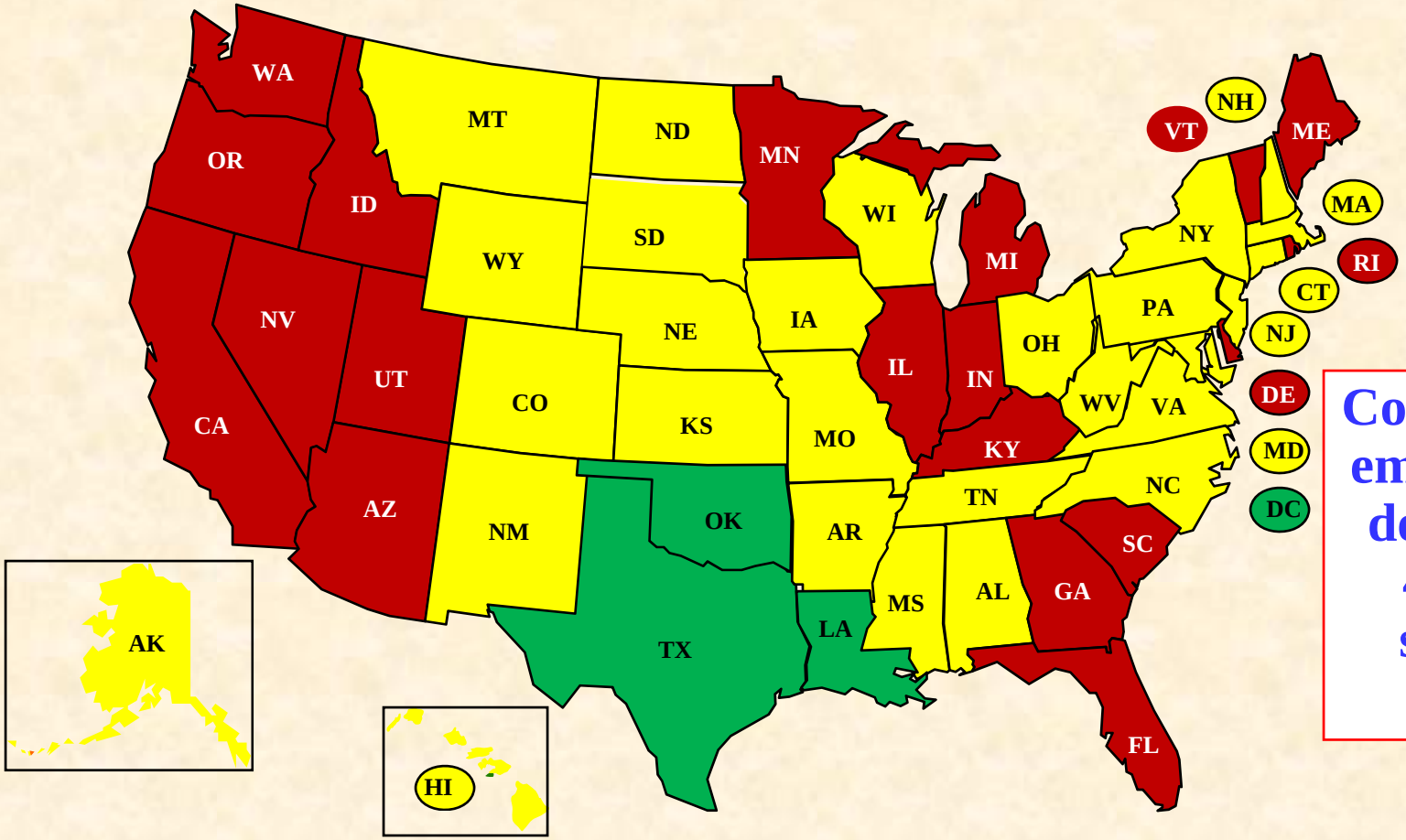
Source: Insurance Information Institute research from US Bureau of Labor Statistics data: http://www.bls.gov/ces/home.htm.

Wage & Salary Disbursements (Payroll Base) vs. Workers Comp Net Written Premiums



*Wage and Salary data though October 2008.
Source: US Bureau of Economic Analysis; Federal Reserve Bank of St. Louis at http://research.stlouisfed.org/fred2/series/WASCUR; I.I.I. Fact Books

State Construction Employment, Dec. 2007 – Dec. 2008



Construction employment declined in 47 of 50 states in 2008

0% to 4% | -0.1% to -8.5% | -8.8% to -22%

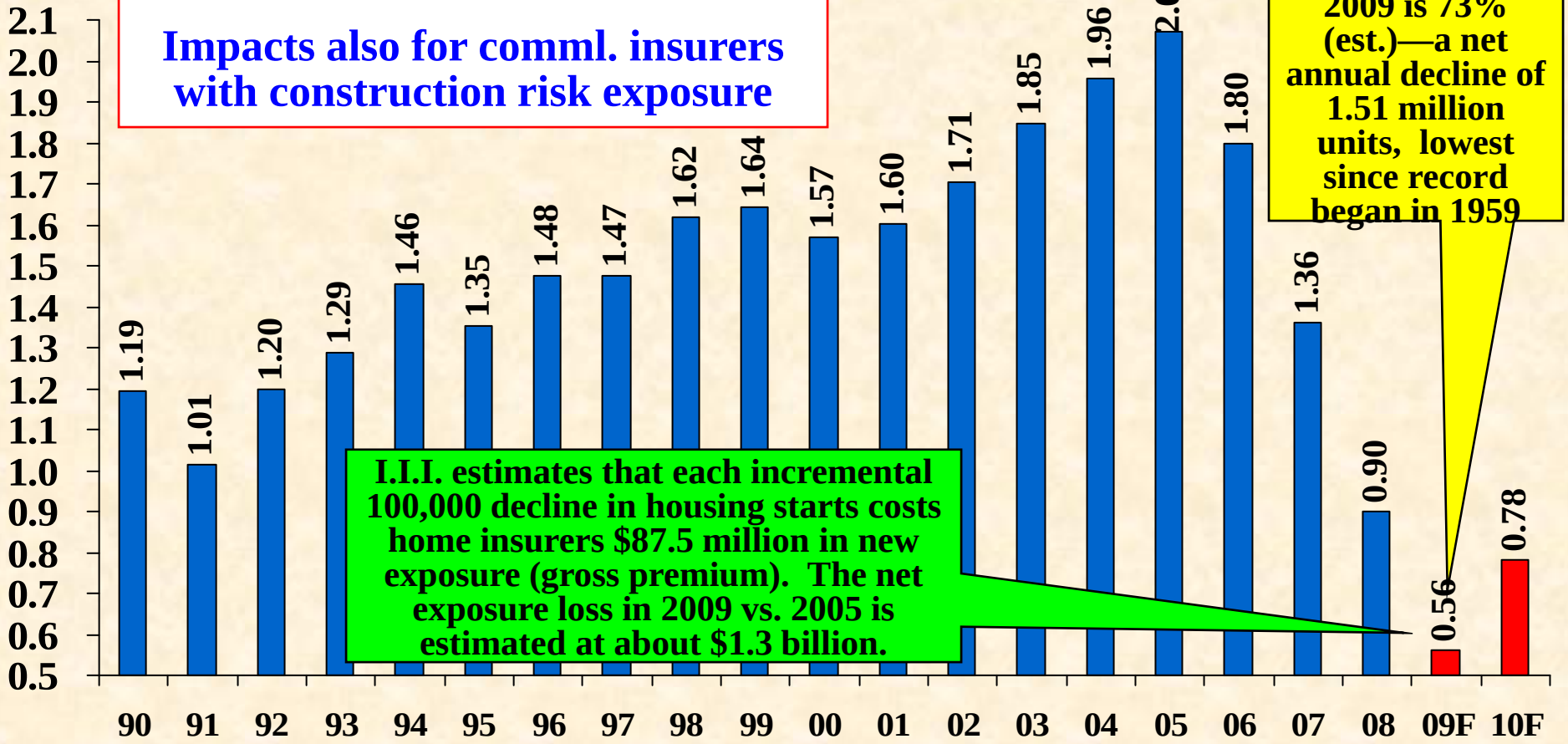
Sources: Associated General Contractors of America from Bureau of Labor Statistics; Insurance Information Institute.

New Private Housing Starts, 1990-2010F (Millions of Units)

Exposure growth forecast for HO insurers is dim for 2009 with some improvement in 2010.

Impacts also for comml. insurers with construction risk exposure

New home starts plunged 34% from 2005-2007; Drop through 2009 is 73% (est.)—a net annual decline of 1.51 million units, lowest since record began in 1959



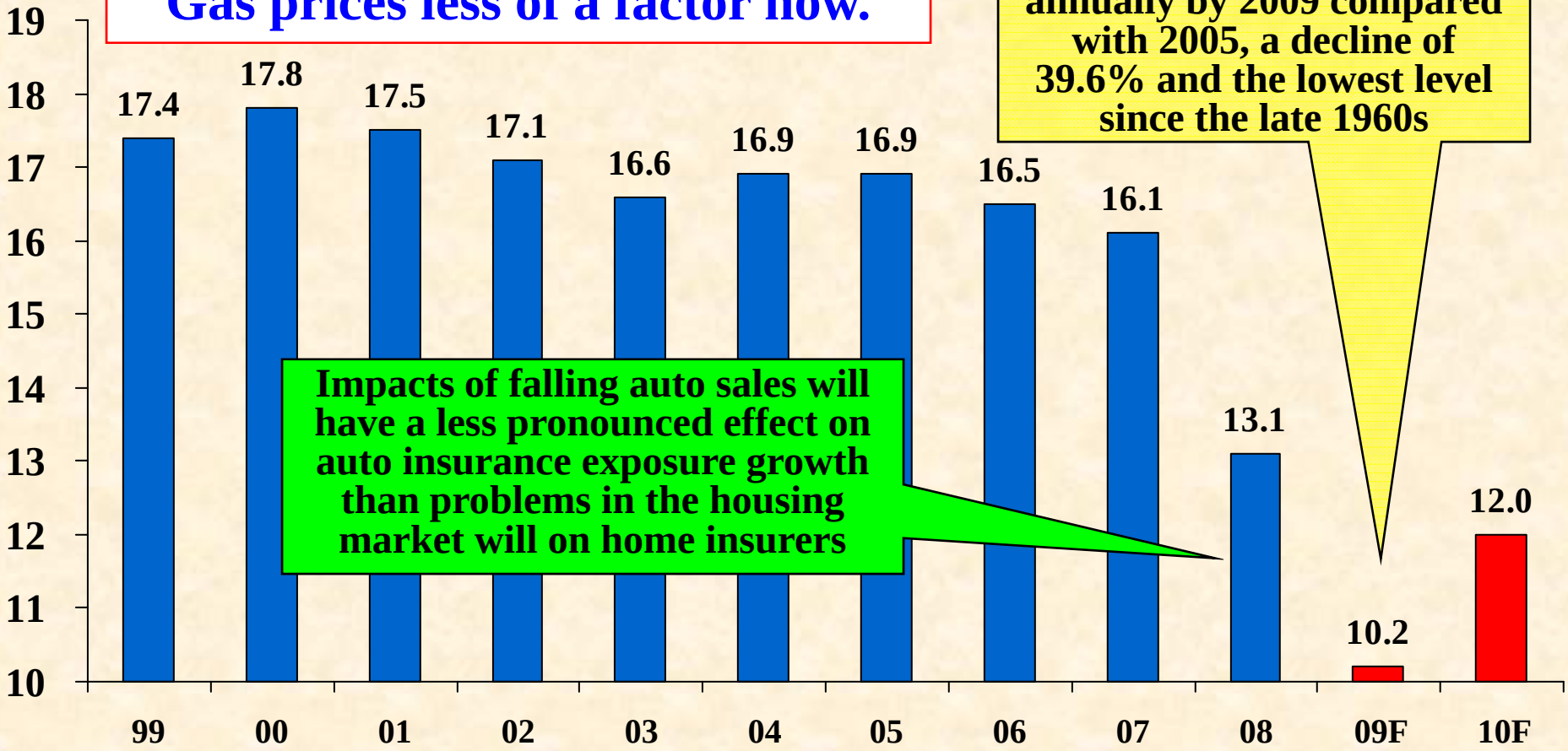
I.I.I. estimates that each incremental 100,000 decline in housing starts costs home insurers $87.5 million in new exposure (gross premium). The net exposure loss in 2009 vs. 2005 is estimated at about $1.3 billion.

Source: US Department of Commerce; Blue Chip Economic Indicators (4/09); Insurance Information Inst.

Auto/Light Truck Sales, 1999-2010F (Millions of Units)

Weakening economy, credit crunch are hurting auto sales; Gas prices less of a factor now.

New auto/light truck sales are expected to experience a net drop of 6.7 million units annually by 2009 compared with 2005, a decline of 39.6% and the lowest level since the late 1960s



Impacts of falling auto sales will have a less pronounced effect on auto insurance exposure growth than problems in the housing market will on home insurers

Source: US Department of Commerce; Blue Chip Economic Indicators (4/09); Insurance Information Inst.

AFTERSHOCK

What Will the P/C Insurance Industry Look Like After the Crisis?

6 Key Differences

6 Key Differences: P/C Insurance in the Post-Financial Catastrophe World

1. **The P/C Insurance Industry Will Be Smaller: The Industry Will Have Shrunk by About 3% in Dollar Terms and by 8% on an Inflation Adjusted Basis, 2007-09**
   - **Falling prices, weak exposure growth, increasing government intervention in private (re)insurance markets, large retentions and alternative forms of risk transfer have siphoned away premium**

2. **P/C Industry Will Emerge With Its Risk Mgmt. Model More Intact than Most Other Financial Service Segments**
   - **Benefits of risk-based underwriting, pricing and low leverage clear**

3. **There Will Be Federal Regulation of Insurers: Now in Waning Months of Pure State-Based Regulation**
   - **Federal regulation of "systemically important" firms seems certain**
   - **Solvency and Rates regulation, Consumer Protection may be shared**
   - **Dual regulation likely; federal/state regulatory conflicts are likely**
   - **With the federal nose under the tent, anything is possible**

Source: Insurance Info. Inst.

6 Key Differences: P/C Insurance in the Post-Financial Catastrophe World

4. **Investment Earnings Will Shrink Dramatically for an Extended Period of Time: Federal Reserve Policy, Shrinking Dividends, Aversion to Stocks**
   - **Trajectory toward lower investment earnings is being locked in**

5. **Insurers Will Return to Their Underwriting Roots: Extended Period of Low Investment Exert Pressure to Generate Underwriting Profits Since 1960s**
   - **Chastened and "derisked" but facing the same (or higher) expected losses, insurers must work harder to match risk to price**

6. **P/C Insurers: Profitable Before, During & *After* Crisis: Resiliency Once Again Proven**
   - **Directly the result of industry's risk management practices**

Source: Insurance Information Inst.

Emerging Blueprint for Financial Services Regulatory Overhaul

Phase I: Systemic Risk Regulation/Regulator

- **Identification of systemic risk points in the financial system**
- **Design of appropriate regulation to prevent future collapses**
- **Will require international consultation (US can't manage systemic risk alone)**

- **Oversight Responsibility: Likely With Federal Reserve**
  - **Fed would have capacity and power to assess risk across financial markets regardless of corporate form and to intervene when appropriate***
  - **Fed could oversee (according to House FS Committee Chairman Barney Frank:**
    - **Hedge funds (need to ensure "complete transparency")**
    - **Credit ratings agencies**
    - **Executive compensation (to curb "perverse risk incentives")**
  - **TIMELINE: Frank wants "general outline" by April 2 meeting of G20 industrialized and developing nations**

*http://financialservices.house.gov/press110/press0320082.shtml

Source: *Wall Street Journal*, "Frank Backs Regulator for Systemic Risk," 2/4/09, p. C3; I.I.I. research.

Possible Regulatory Scenarios for P/C Insurers as of Year-End 2009

- **Status Quo: P/C Insurers Remain Entirely Under Regulatory Supervision of the States**
  - **Unlikely, but some segments of the industry might welcome this outcome above all others**
- **Federal Regulation: Everything is Regulated by Feds**
  - **Unlikely that states will be left totally in the cold**
- **Optional Federal Charter (OFC): Insurers Could Choose Between Federal and State Regulation**
  - **Unlikely to be implemented as envisioned for past several years by OFC supporters**
- **Dual Regulation: Federal Regulation Layer Above State**
  - **Feds assume solvency regulation, states retain rate/form regulation**
- **Hybrid Regulation: Feds Assume Regulation of Large Insurers at the Holding Company Level**
- **Systemic Risk Regulator: Feds Focus on Regulation of Systemic Risk Points in Financial Services Sector**
  - **What are these points for insurers? P/C vs. Life?**

Source: Insurance Information Inst.

10 Key Threats Facing Insurers Amid Financial Crisis

Challenges for the Next 5-8 Years

Important Issues & Threats Facing Insurers: 2009 - 2015

1. Erosion of Capital

- **Losses are larger and occurring more rapidly than is commonly understood or presumed**
- **Surplus down 13%=$66B since 9/30/07 peak; 12% ($80B) in 2008**
- **P/C policyholder surplus could be even more by year-end 2009**
- **"Price Elasticity of Capital" is too weak (low)**
- **Some insurers propped up results by reserve releases**
- **Decline in PHS of 1999-2002 was 15% over 3 years and was entirely made up and them some in 2003. Current decline is ~13% in 5 qtrs.**
- **During the opening years of the Great Depression (1929-1933) PHS fell 37%, Assets fell 28% and Net Written Premiums fell by 35%. It took until 1939-40 before these key measures returned to their 1929 peaks.**
- **BOTTOM LINE: Capital and assets could fall much farther and faster than many believe. It will take years to return to the 2007 peaks (likely until 2011 with a sharp hard market and 2015 without one)**

Source: Insurance Information Inst.

Important Issues & Threats Facing Insurers: 2009 - 2015

2. Reloading Capital After "Capital Event"

- **Continued asset price erosion coupled with major "capital event" could lead to shortage of capital among *some* companies**
- **Possible Consequences: Insolvencies, forced mergers, calls for govt. aid, requests to relax capital requirements**
- **P/C insurers have come to assume that large amounts of capital can be raised quickly and cheaply after major events (post-9/11, Katrina).**
  - ***This assumption may be incorrect in the current environment***
- **Cost of capital is *much* higher today, reflecting both scarcity & risk**
- **Implications: P/C (re)insurers need to protect capital today and develop detailed contingency plans to raise fresh capital & generate internally. Already a reality for some life insurers.**

Source: Insurance Information Inst.

Important Issues & Threats Facing Insurers: 2009 - 2015

3. Long-Term Loss of Investment Return

- **Low interest rates, risk aversion toward equities and many categories of fixed income securities lock in a multi-year trajectory toward ever lower investment gains**
- **Price bubble in Treasury securities keeps yields low**
- **Many insurers have not adjusted to this new investment paradigm of a sustained period of low investment gains**
- ***Regulators will <u>not</u> readily accept it*; Many will reject it**
- **Implication 1: Industry must be prepared to operate in environment with investment earnings accounting for a smaller fraction of profits**
- **Implication 2: Implies underwriting discipline of a magnitude not witnessed in this industry in more than 30 years. Yet to manifest itself.**
- **Lessons from the period 1920-1975 need to be relearned**

Source: Insurance Information Inst.

Important Issues & Threats Facing Insurers: 2009 - 2015

4. Economic Collapse

- **Long-term decline in industry growth prospects similar to the 1930s**
- **Collapse does *not* imply inability to remain profitable**
- **Industry in 1930s shrank but became profitable**
- **Some insurers will not survive due to combination of poor investment environment, operating underwriting challenges and capital depletion**
- **Policyholder behavior will change; *Need Mitigation Strategies***
  - **Coverages dropped, limits lowered, higher deductibles**
  - **Properties not well maintained; more vacant/abandoned properties**
  - **More uninsured motorists (already happening)**
  - **Insurance fraud will increase (anecdotal evidence mounting)**
- **Property crime will increase (burglary, auto theft)**
- **Wholesale destruction of wealth (happening now)**
- **Loss of retirement security (deepening)**
- **Bottom Line: Industry can survive deep and prolonged economic downturn, but not without casualties**

Source: Insurance Information Inst.

Important Issues & Threats Facing Insurers: 2009 – 2???

5. Regulatory Overreach

- **Principle danger is that P/C insurers get swept into vast federal regulatory overhaul and subjected to inappropriate, duplicative and costly regulation (Dual Regulation)**
- **Danger is high as feds get their nose under the tent**
- **Status Quo is viewed as unacceptable by all**
- **Pushing for major change is not without *significant* risk in the current highly charged political environment**
- **Insurance & systemic risk (e.g., AIG)**
- **Disunity within the insurance industry**
- **Impact of regulatory changes will be felt for decades**
- **Bottom Line: Regulatory outcome is uncertain and risk of adverse outcome is high**

Source: Insurance Information Inst.

Important Issues & Threats Facing Insurers: 2009 - 2015

6. Creeping Restrictions on Underwriting

- **Attacks on underwriting criteria such as credit, education, occupation, territory increasing**
- **Industry will lose some battles**
- **View that use of numerous criteria are discriminatory and create an adverse impact on certain populations**
- **Impact will be to degrade the accuracy of rating systems to increase subsidies**
- **Predictive modeling also at risk**
- **Current social and economic environment could accelerate these efforts**
- **Danger that bans could be codified at federal level during regulatory overhaul**
- **Bottom Line: Industry must be prepared to defend existing and new criteria indefinitely**

Source: Insurance Information Inst.

Important Issues & Threats Facing Insurers: 2009 - 2015

7. Exploitation of Insurance as a Wealth Redistribution Mechanism

- **There is a longstanding history of attempts to use insurance to advance wealth redistribution/economic agendas**
- **Attacks on underwriting criteria such as credit, education, occupation and territory have been targeted in the past**
- **Urban subsidies; Coastal subsidies**
- **Insurer focus on underwriting profitability (resulting in higher rates) coupled with poor economic conditions could raise profile of affordability issue**
- **Calls for "excess profits tax" on insurers (during next cycle or post-cat)**
- **Increased government involvement in insurance (including ownership stakes) make this more likely**
- **Federal regulation could impose such redistribution schemes**
- **Bottom Line: Expect efforts to address social and economic inequities through insurance**

Source: Insurance Information Inst.

Important Issues & Threats Facing P/C Insurers: 2009 - 2015

8. Mega-Catastrophe Losses

- **$100B CAT year is not improbably over the next 5-7 year**
- **Severity trend remains upward**
- **Frequency trends highly variable but more prone to spikes**
- **FINANCING: Unclear if sufficient capital exists to finance mega-cats in current capital constrained environment**
- **Concern over reinsurance capacity and pricing**
- **Alternative sources of CAT financing have dried up**
- **CAT bonds less attractive; *Willow Re example***
- **Some regulators will continue to suppress rates**
- **Residual markets shares remain high**
- **Loss of volume for private insurers in key states (e.g., FL)**
- ***Serves as entry point for socialization of insurance***
- **Bottom Line: Capacity to finance mega-cats is diminished. Government may fill the void, sometimes with the industry's support; sometimes in spite of opposition**

Important Issues & Threats Facing Insurers: 2009 -2015

9. Creeping Socialization and Partial Nationalization of Insurance System

- **CAT risk is, on net, being socialized directly via state-run insurance and reinsurance mechanisms or via elaborate subsidy schemes involving assessments, premium tax credits, etc.**
- **Some (life) insurers beyond AIG asking for TARP money**
- **Efforts to expand flood program to include wind**
- **Health insurance may be substantively socialized**
- **Terrorism risk—already a major federal role backed by insurers**
- **Eventually impacts for other lines such as personal auto liability,WC?**
- **Feds may open to more socialization of private insurance risk**
- **Ownership stakes in some insurers could be a slippery slope**
- **Despite best efforts of companies like State Farm to charge risk appropriate premiums, withdrawal becomes business imperative and leads to greater socialization**
- **States like FL will lean heavily on Washington in the event of a mega-cat that threatens state finances**
- **Bottom Line: Additional socialization likely. Can insurers/will insurers draw the line?**

Source: Insurance Information Inst.

Important Issues & Threats Facing Insurers: 2009 -2015

10. Emerging Tort Threat

- **No tort reform (or protection of recent reforms) is forthcoming from the current Congress or Administration**
- **Erosion of recent reforms is a certainty (already happening)**
- **Innumerable legislative initiatives will create opportunities to undermine existing reforms and develop new theories and channels of liability**
- **Torts twice the overall rate of inflation**
- **Influence personal and commercial lines, esp. auto liab.**
- **Historically *extremely* costly to p/c insurance industry**
- **Leads to reserve deficiency, rate pressure**
- **Bottom Line: Tort "crisis" is on the horizon and will be recognized as such by 2012**

Source: Insurance Information Inst.

GREEN SHOOTS

Is the Recession Nearing an End?

Hopeful Signs That the Economy Will Begin to Recover Soon

- Recession Appears to be Bottoming Out, Freefall Has Ended
  - Pace of GDP shrinkage is beginning to diminish
  - Pace of job losses is leveling off
  - Major stock market indices well off record lows, anticipating recovery
  - Some signs of retail sales stabilization are evident
- Financial Sector is Stabilizing
  - Banks are reporting quarterly profits
  - Many banks expanding lending to credit worthy people & businesses
- Housing Sector Likely to Find Bottom Soon
  - Home are much more affordable (attracting buyers)
  - Mortgage rates are at multi-decade lows (attracting buyers)
  - Freefall in housing starts and existing home sales is ending
- Inflation & Energy Prices Are Under Control
- Consumer & Business Debt Loads Are Shrinking

Source: Ins. Info. Inst.

10 Industries for the Next 10 Years: Insurance Solutions Needed

Government

Education

Health Care

Energy (Traditional)

Alternative Energy

Agriculture

Natural Resources

Environmental

Technology

Light Manufacturing

THE $787 BILLION ECONOMIC STIMULUS

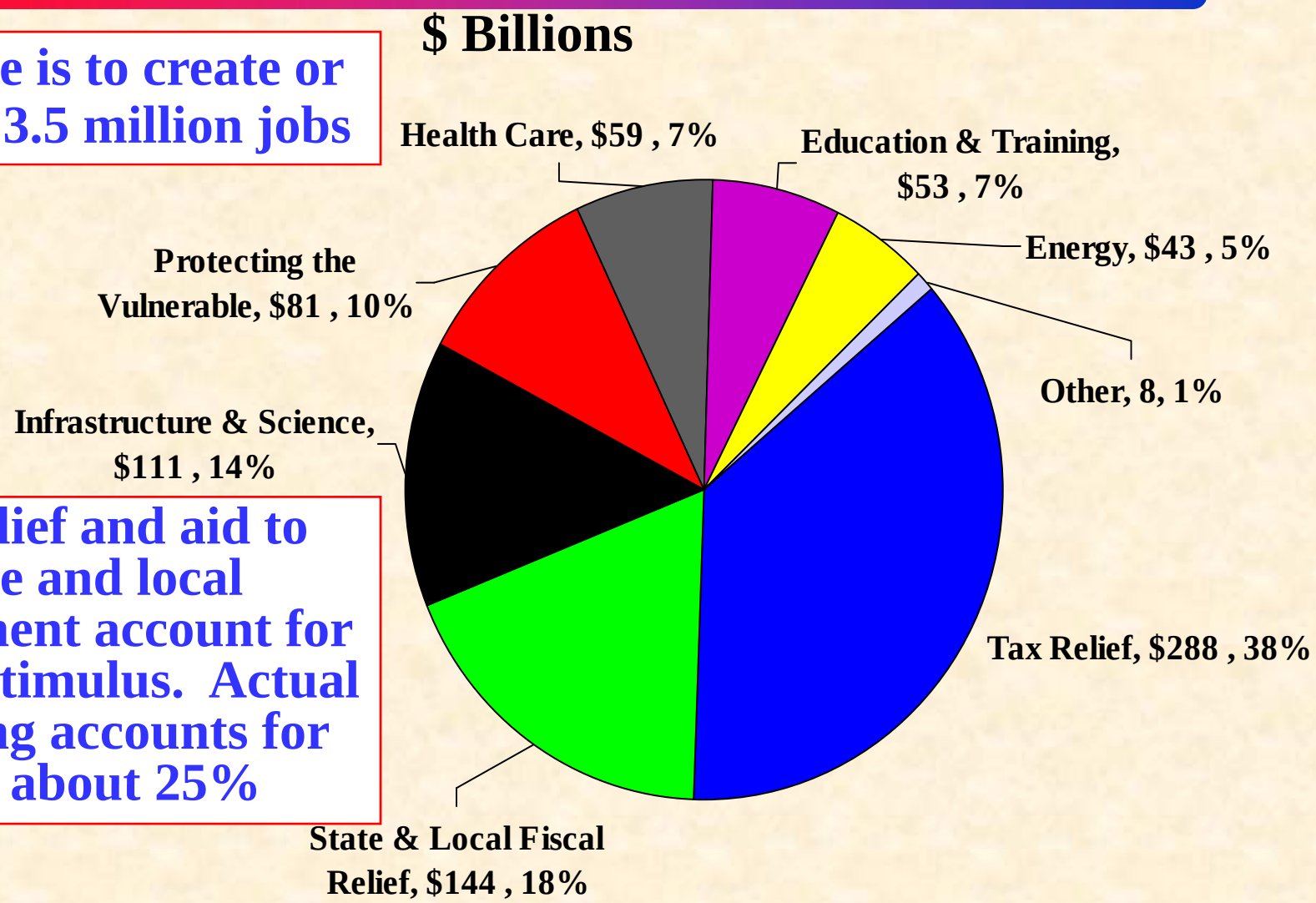
Sectoral Impacts & Implications for P/C Insurance

Summary of Short-Run Impacts of Stimulus Package on P/C Insurance

- **No Stimulus Provisions Specifically Address P/C Insurance**
  - **Spending, Aid and Tax Reductions benefit other industries, state and local governments, as well as individual and some corporate taxpayers**
- **Stimulus Package is Unlikely to Increase Net Premiums Written by More Than 1% or Approx. $4.5 Bill. by Year-End 2010**
- **"Direct" Impact to P/C Insurers Results Primarily from Increased Demand for Commercial Insurance**
  - **Primarily the result of increased infrastructure spending and the resulting need to insure workers, property and protect against liability risks**
  - **Because the primary objective of the stimulus is employment related, workers compensation will be the p/c line that benefits the most**
  - **Assuming the target of 3.5 million jobs created or preserved is achieved, private workers comp NPW (new and preserved) could amount to as much as $1.1 billion**
  - **Other commercial lines to benefit: surety, commercial auto, inland marine**
- **Other "Direct" P/C Demand Benefits Will Be Minimal**
  - **Tax provisions providing incentives to buy cars and homes and accelerate the depreciation of equipment will have little net impact on exposure**
  - **Some additional premium may be generated as older cars and equipment are replaced with new and more valuable (and therefore more expensive to insure)**

Economic Stimulus Package: Where the $787B Goes

Objective is to create or preserve 3.5 million jobs

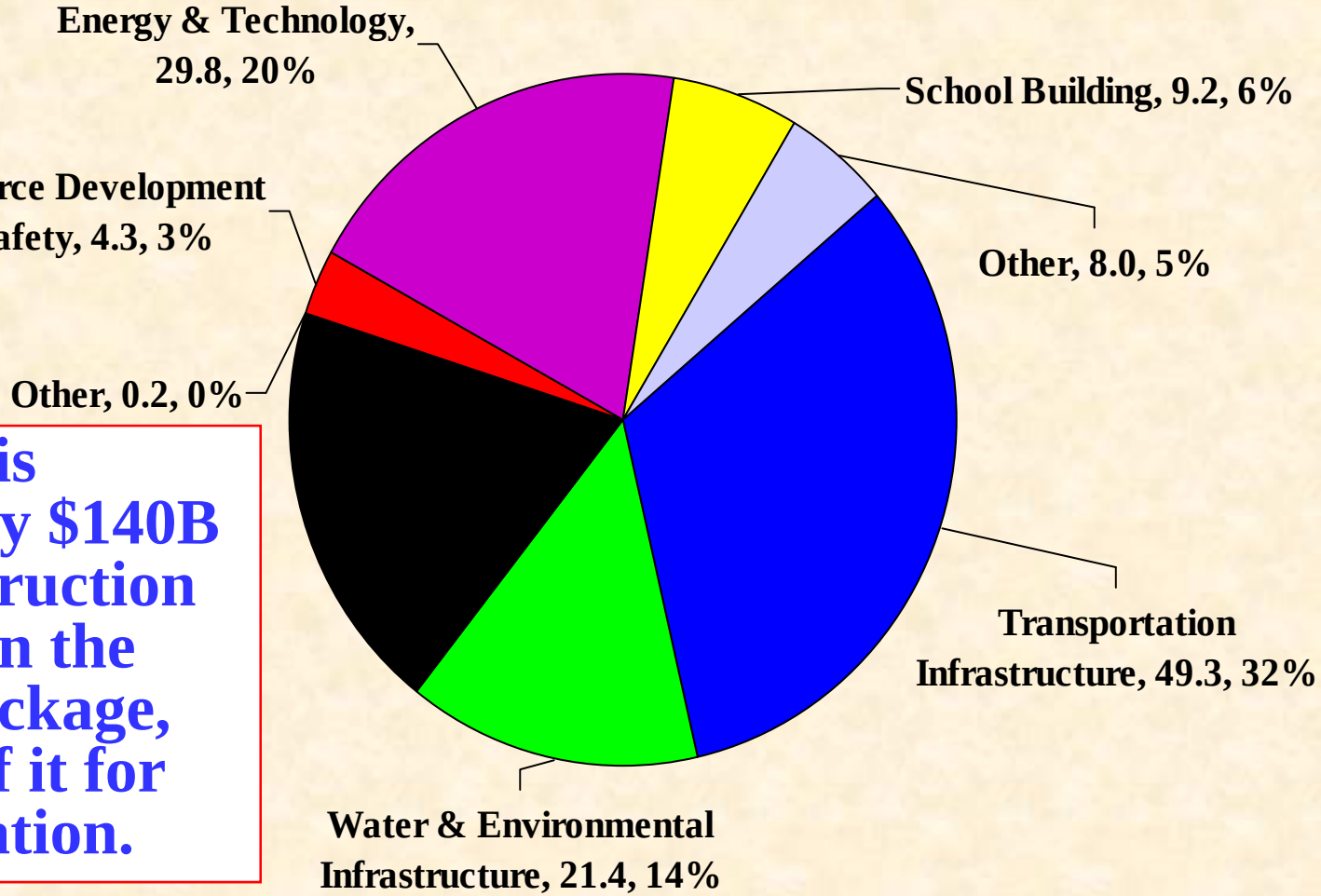


Tax relief and aid to state and local government account for 56% of stimulus. Actual spending accounts for only about 25%

Source: http://www.recovery.gov/ accessed 2/18/09; Insurance Information Institute.

Economic Stimulus Package: $143.4 in Construction Spending

$ Billions



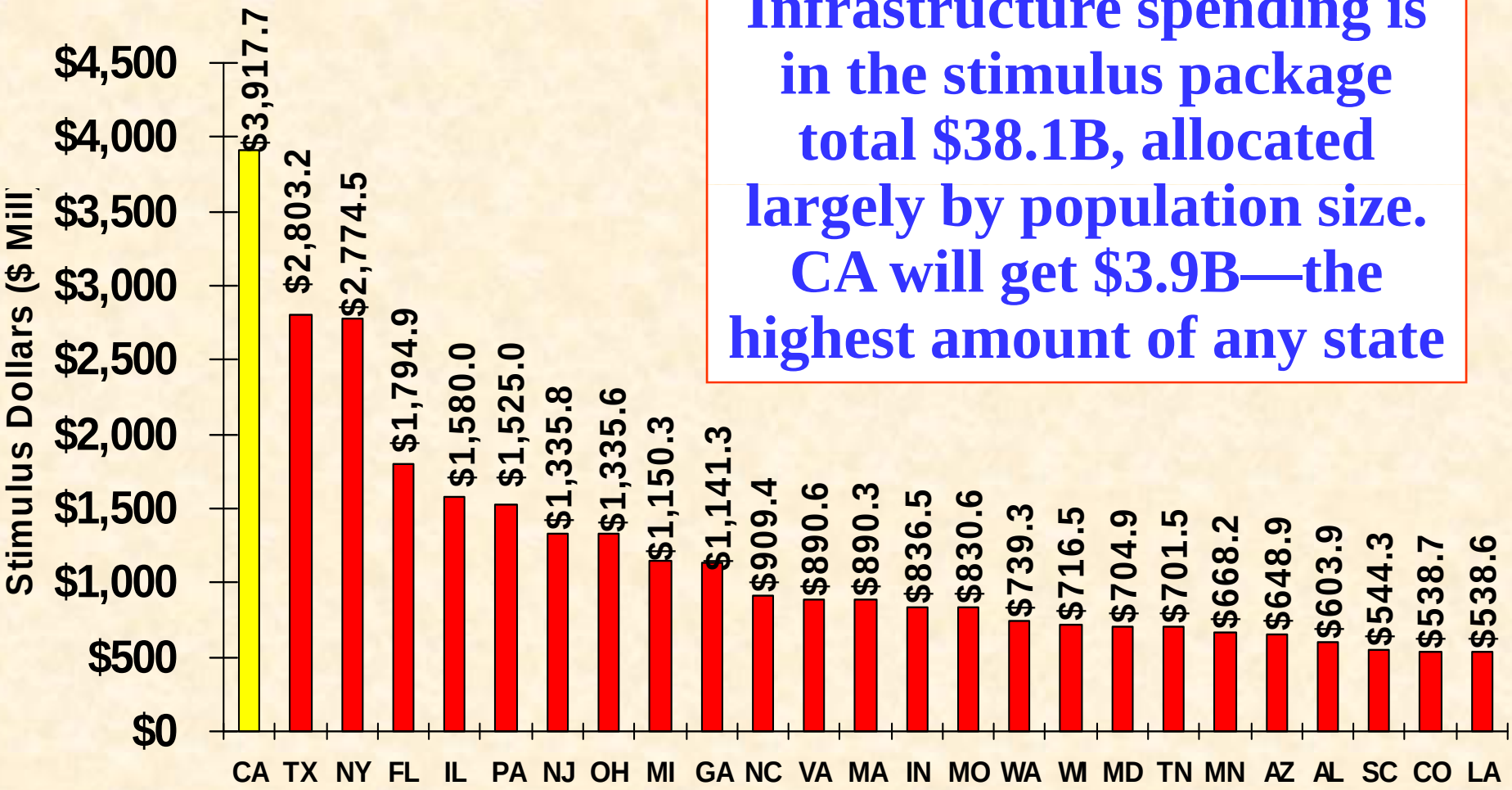
There is approximately $140B in new construction spending in the stimulus package, about 1/3 of it for transportation.

Source: Associated General Contractors at http://www.agc.org/cs/rebuild_americas_future (2/18/09); Insurance Info. Inst..

State-by-State Infrastructure Employment & Spending Impacts

Bigger States Get More, Should Benefit WC Insurers the Most

Infrastructure Stimulus Spending By State: Top 25 States ($ Millions)



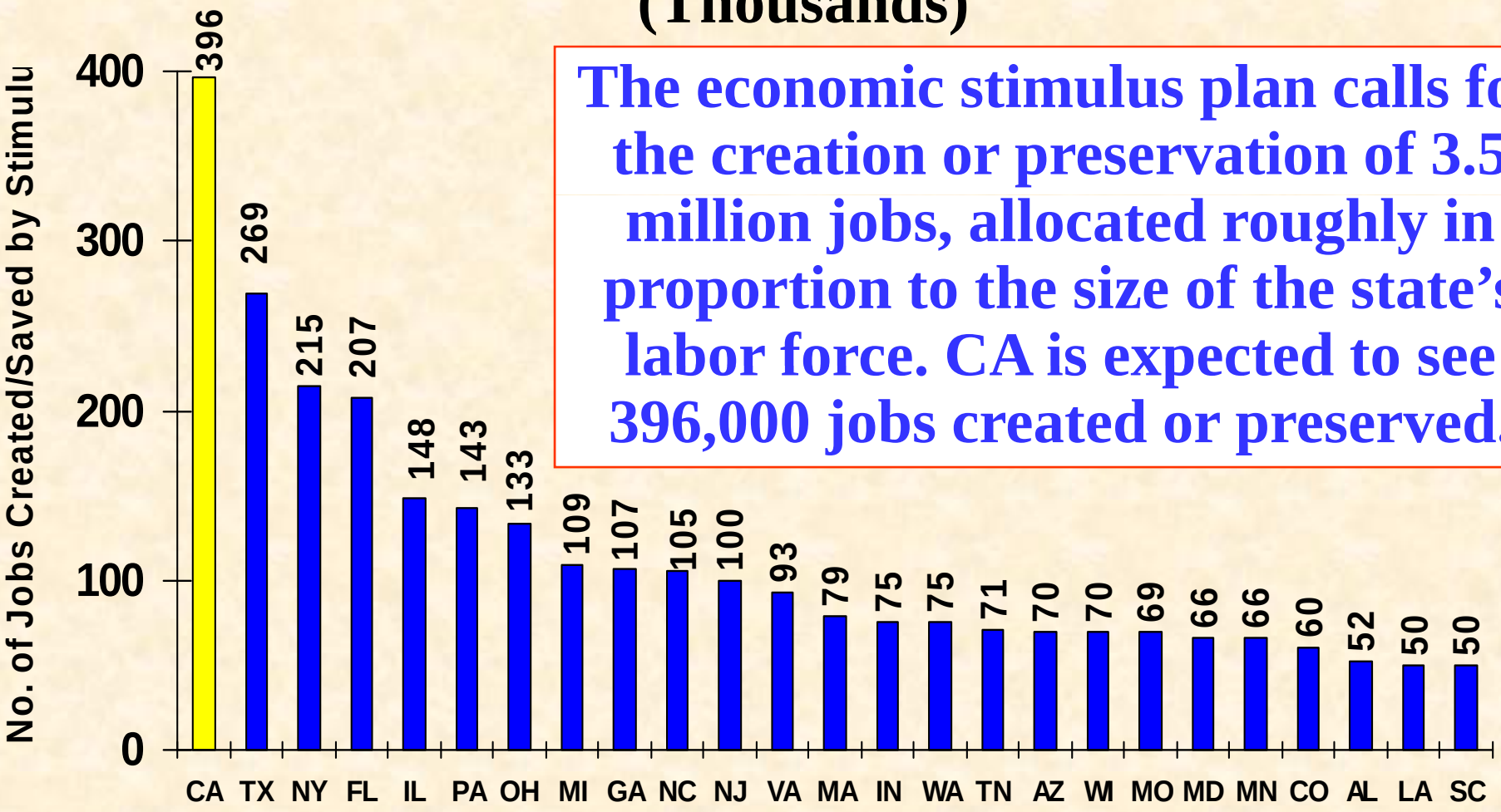
Infrastructure spending is in the stimulus package total $38.1B, allocated largely by population size. CA will get $3.9B—the highest amount of any state

Sources: USA Today 2/19/09; House Transportation and Infrastructure Committee; the Associated Press.

Estimated Job Effect of Stimulus Spending By State: Top 25 States

(Thousands)

The economic stimulus plan calls for the creation or preservation of 3.5 million jobs, allocated roughly in proportion to the size of the state's labor force. CA is expected to see 396,000 jobs created or preserved.



Sources: http://www.recovery.gov/; Council of Economic Advisers Insurance Information Institute.

Stimulus: Reading The Economic Tea Leaves for the Next 4 to 8 Years

- **Growing Role of Government: 2009 Stimulus Package and Other Likely Spending Initiatives Guarantee that Government Will Play a Much Larger Role Than at Any Other Time in Recent History**
  - **Every industry, including insurance, will and must attempt to maximize direct and indirect benefits from this paradigm shift**
- **Obama Administration Priorities: Stimulus Package Acts as "Economic Tea Leaf" on the Administration's Fiscal Priorities for the Next Several Years**
- **These Include:**
  - **Alternative Energy**
  - **Health Care**
  - **Education**
  - **Aging/New Infrastructure**
  - **Environment**
- **Stimulus is Only One Leg of the Stool**
  - **(1) Stimulus; (2) Housing, and (3) Financial Services Reform**

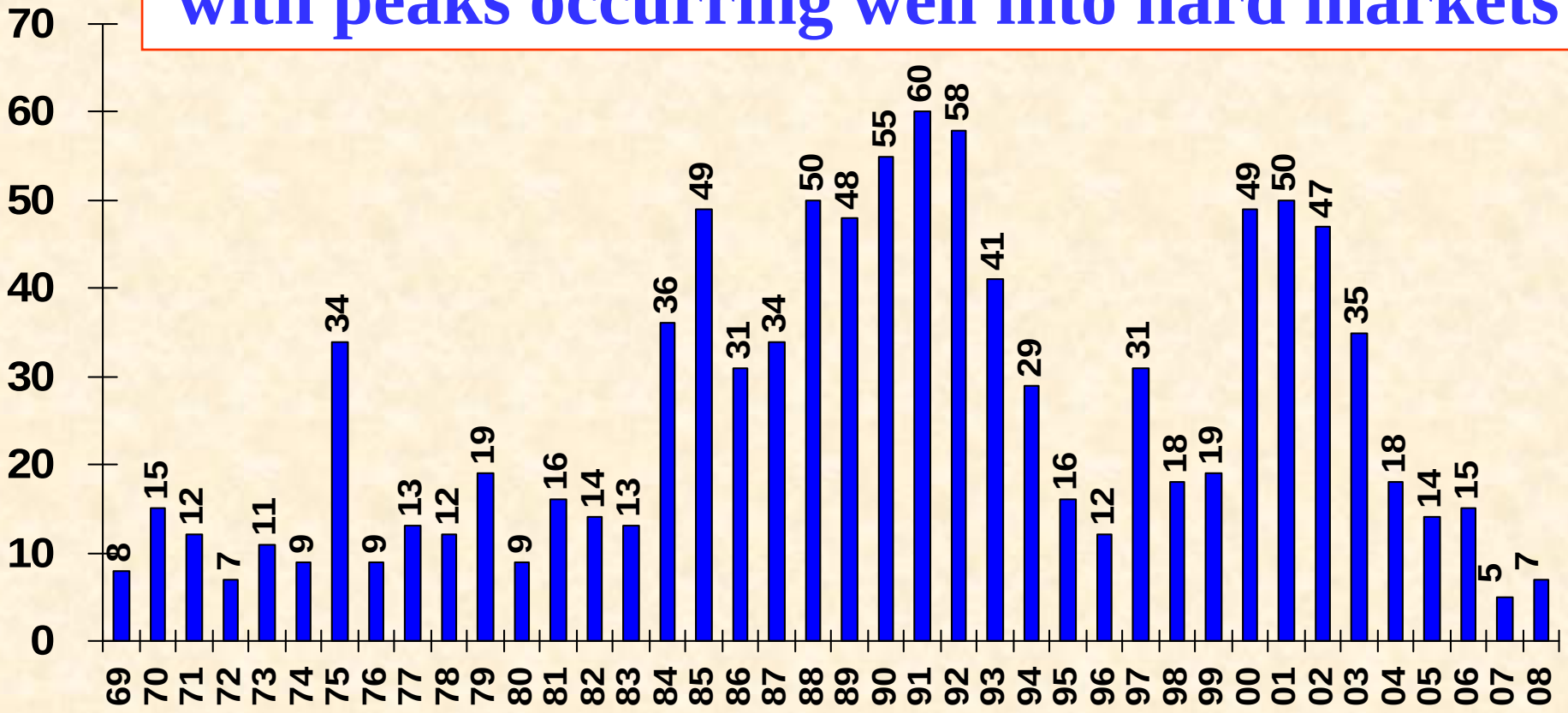
Source: Insurance Information Institute

FINANCIAL STRENGTH & RATINGS

Industry Has Weathered the Storms Well

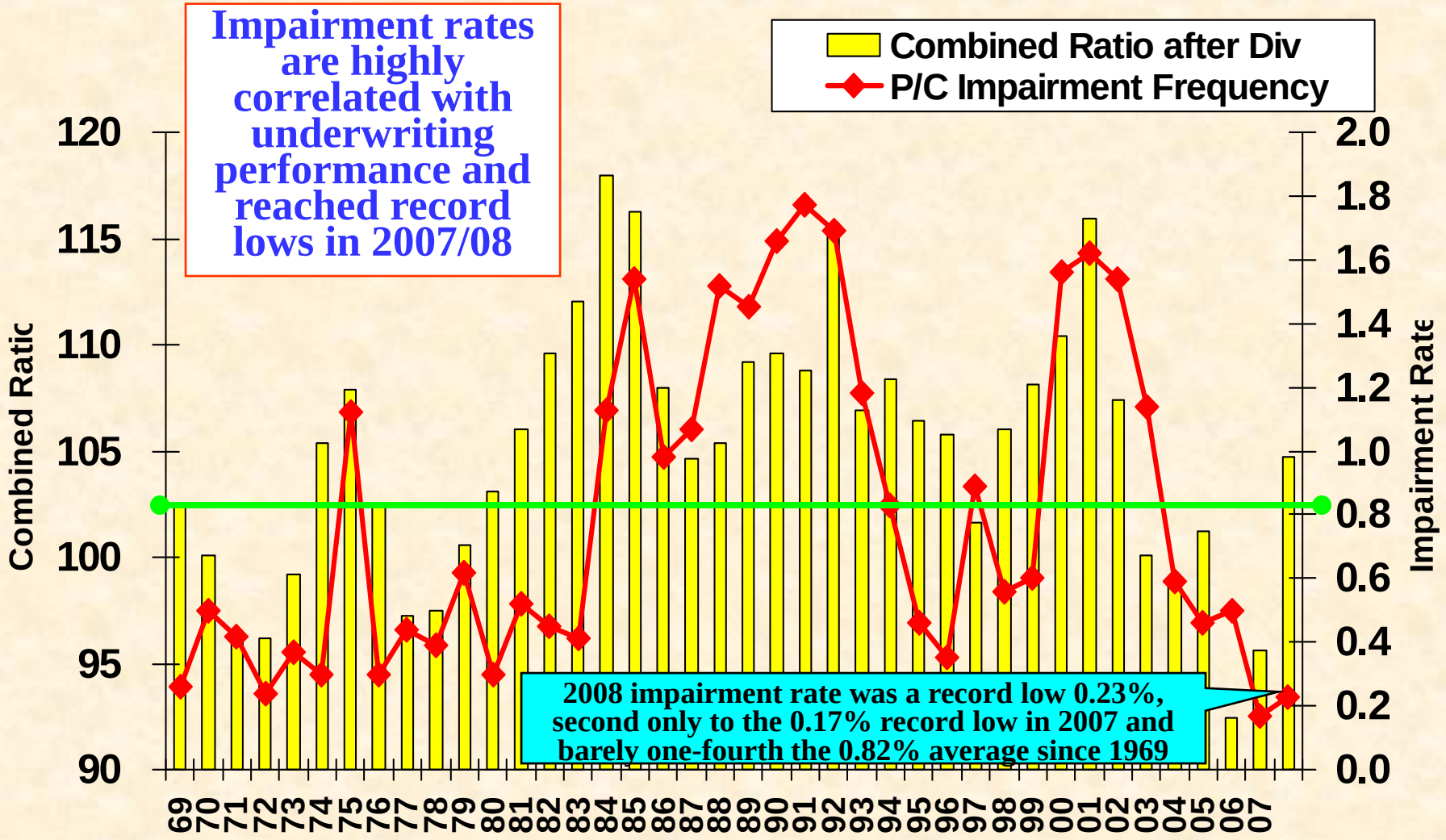
P/C Insurer Impairments, 1969-2008

The number of impairments varies significantly over the p/c insurance cycle, with peaks occurring well into hard markets



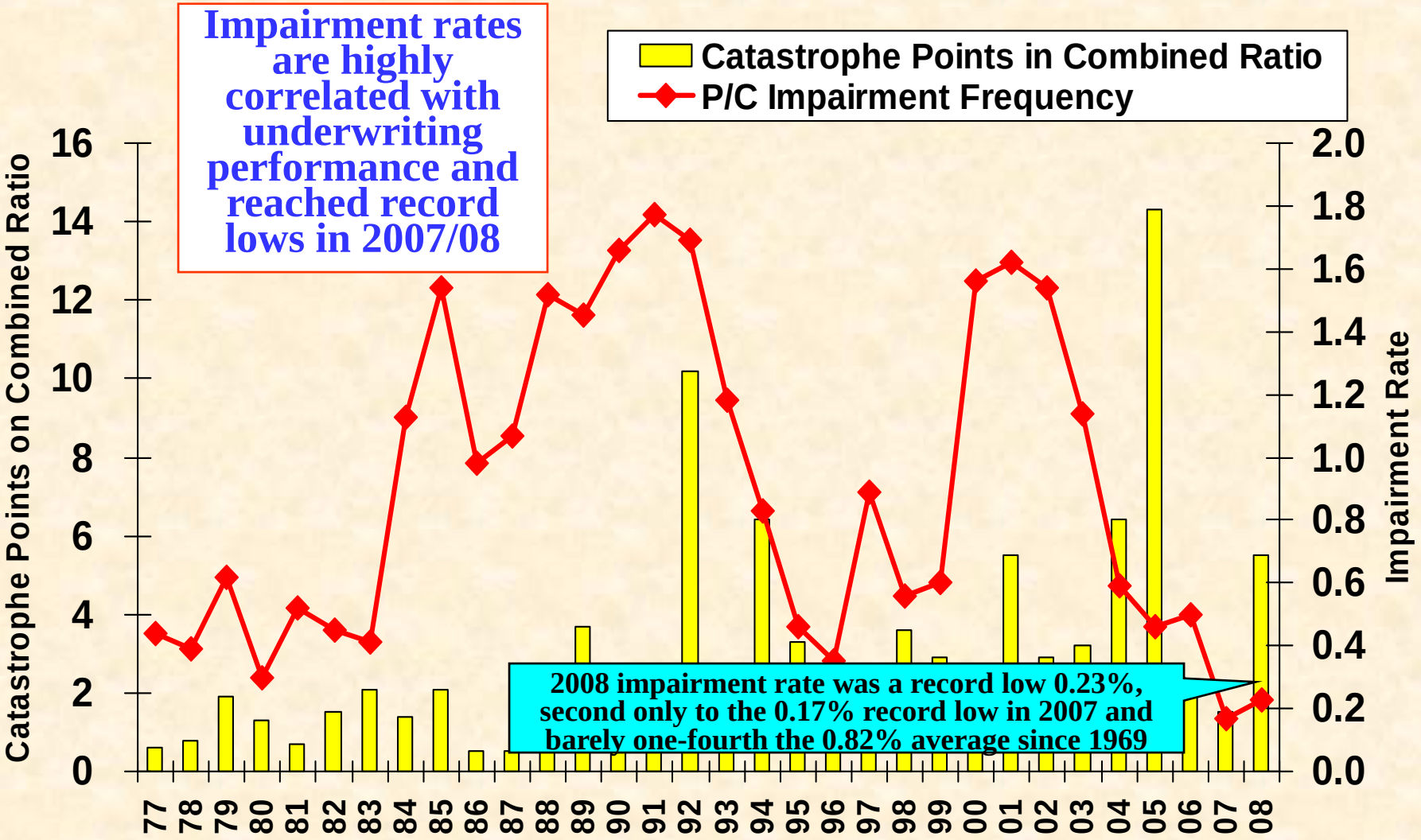
Source: A.M. Best; Insurance Information Institute

P/C Insurer Impairment Frequency vs. Combined Ratio, 1969-2008



Source: A.M. Best; Insurance Information Institute

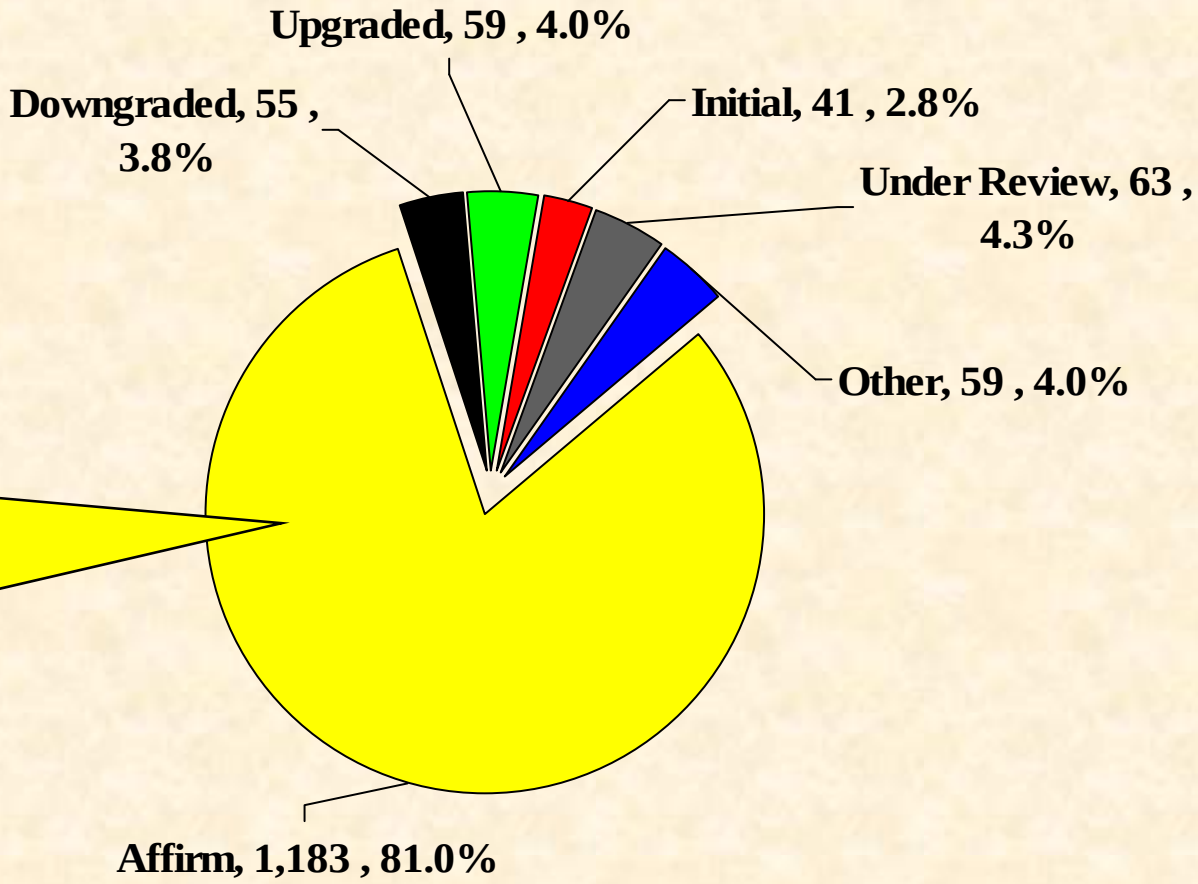
P/C Impairment Frequency vs. Catastrophe Points in Combined Ratio, 1977-2008



Source: A.M. Best, PCS; Insurance Information Institute

*Summary of A.M. Best's P/C Insurer Ratings Actions in 2008**

P/C insurance is by design a resilient in business. The dual threat of financial disasters and catastrophic losses are anticipated in the industry's risk management strategy.



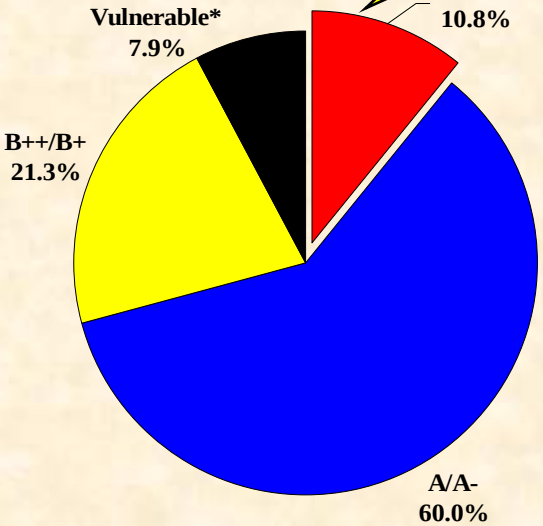
Despite financial market turmoil, high cat losses and a soft market in 2008, 81% of ratings actions by A.M. Best were affirmations; just 3.8% were downgrades and 4.0% upgrades

*Through December 19.
Source: A.M. Best.

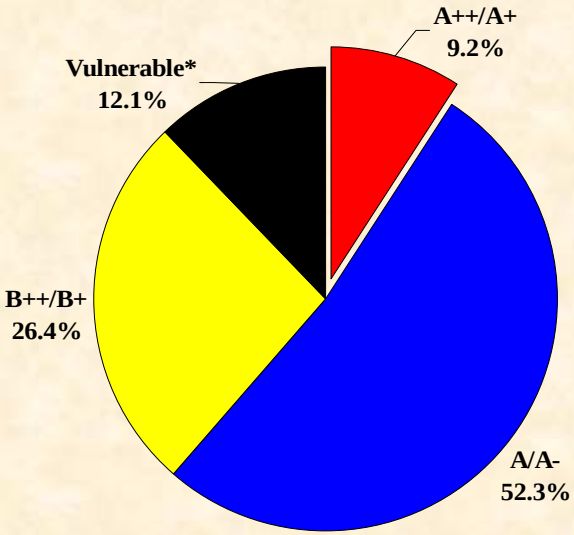
Historical Ratings Distribution,
US P/C Insurers, 2008 vs. 2005 and 2000

2008

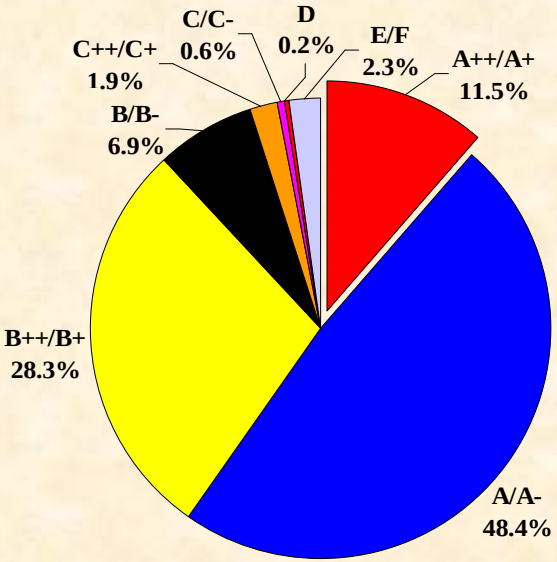
A++/A+ and A/A- gains



2005



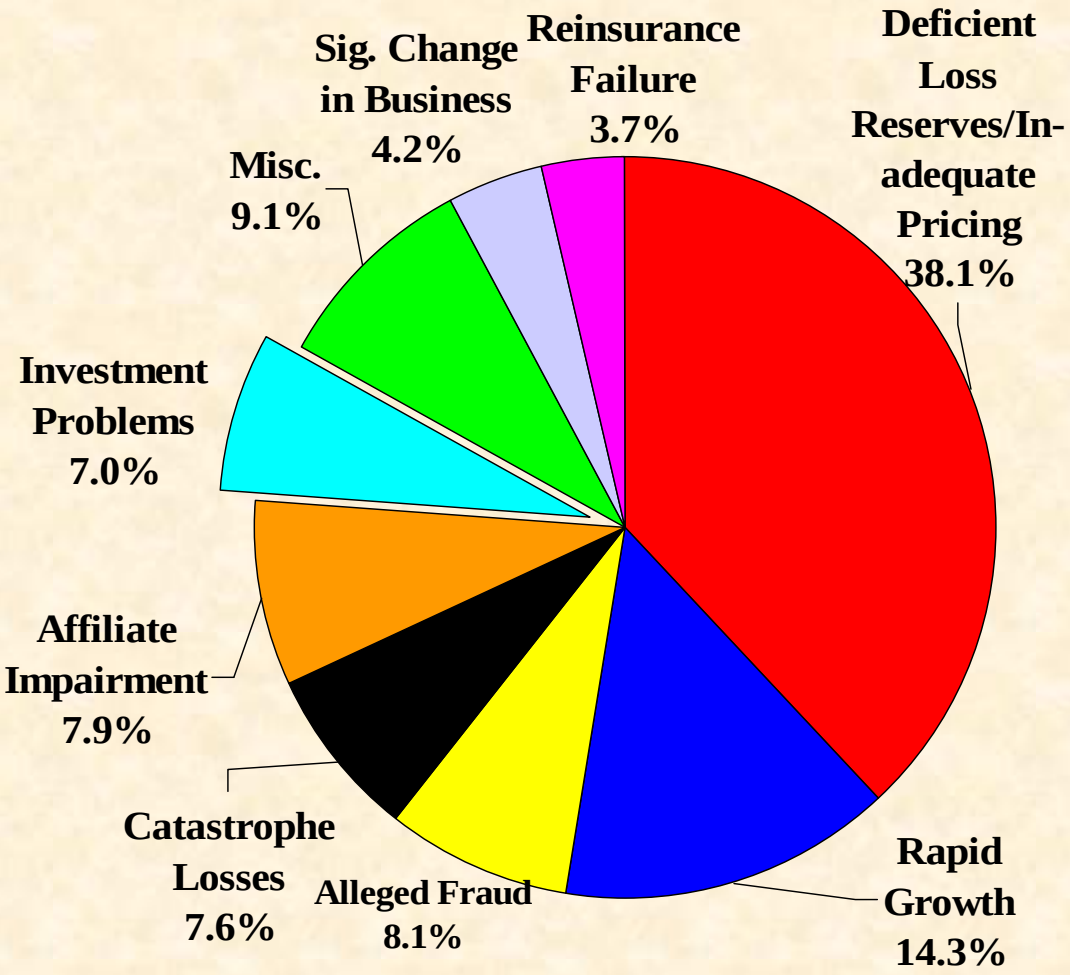
2000



P/C insurer financial strength has improved since 2005 despite financial crisis

Source: A.M. Best: *Rating Downgrades Slowed but Outpaced Upgrades for Fourth Consecutive Year,* Special Report, November 8, 2004 for 2000; 2006 and 2009 *Review & Preview*. *Ratings 'B' and lower.

Reasons for US P/C Insurer Impairments, 1969-2008



Deficient loss reserves and inadequate pricing are the leading cause of insurer impairments, underscoring the importance of discipline. Investment catastrophe losses play a much smaller role.

Source: A.M. Best: *1969-2008 Impairment Review,* Special Report, Apr. 6, 2008

Critical Differences Between P/C Insurers and Banks

Superior Risk Management Model & Low Leverage Make a Big Difference

How Insurance Industry Stability Has Benefitted Consumers

BOTTOM LINE:

- **Insurance Markets—Unlike Banking—Are Operating *Normally***
- **The Basic Function of Insurance—the Orderly Transfer of Risk from Client to Insurer—Continues *Uninterrupted***
- **This Means that Insurers Continue to:**
  - **Pay claims (whereas 57 banks have gone under as of 5/1)**
    - ***The Promise is Being Fulfilled***
  - **Renew existing policies (banks are reducing and eliminating lines of credit)**
  - **Write new policies (banks are turning away people who want or need to borrow)**
  - **Develop new products (banks are scaling back the products they offer)**

Source: Insurance Information Institute

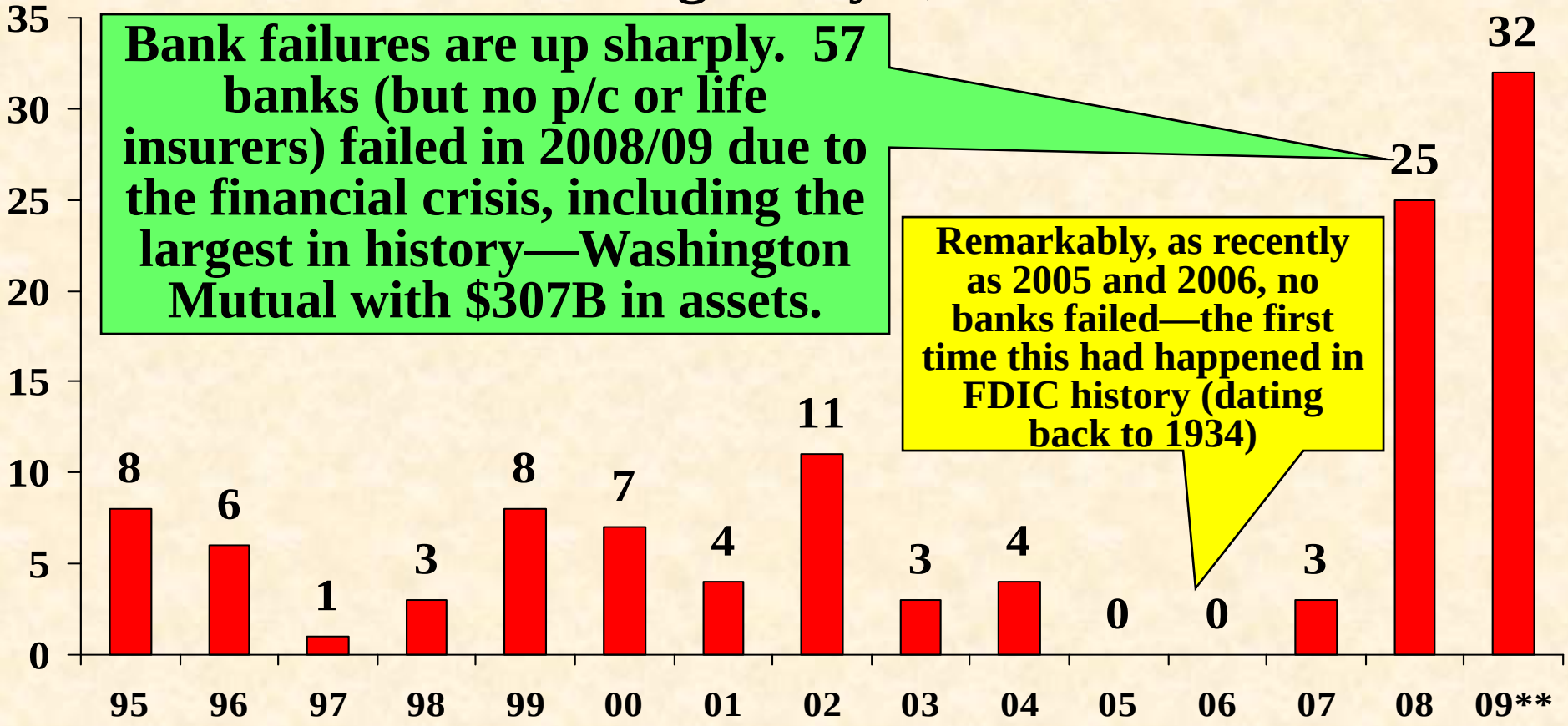
Reasons Why P/C Insurers Have Fewer Problems Than Banks: A Superior Risk Management Model

- ***Emphasis on Underwriting***
  - **Matching of risk to price (via experience and modeling)**
  - **Limiting of potential loss exposure**
  - ***Some banks sought to maximize volume and fees and disregarded risk***
- ***Strong Relationship Between Underwriting and Risk Bearing***
  - **Insurers always maintain a stake in the business they underwrite, keeping "skin in the game" at all times**
  - ***Banks and investment banks package up and securitize, severing the link between risk underwriting and risk bearing, with (predictably) disastrous consequences—straightforward moral hazard problem from Econ 101***
- ***Low Leverage***
  - **Insurers do not rely on borrowed money to underwrite insurance or pay claims →*There is no credit or liquidity crisis in the insurance industry***
- ***Conservative Investment Philosophy***
  - **High quality portfolio that is relatively less volatile and more liquid**
- ***Comprehensive Regulation of Insurance Operations***
  - **The business of insurance remained comprehensively regulated whereas a separate banking system had evolved largely outside the auspices and understanding of regulators (e.g., hedge funds, private equity, complex securitized instruments, credit derivatives—CDS's)**
- ***Greater Transparency***
  - **Insurance companies are an open book to regulators and the public**

Source: Insurance Information Institute

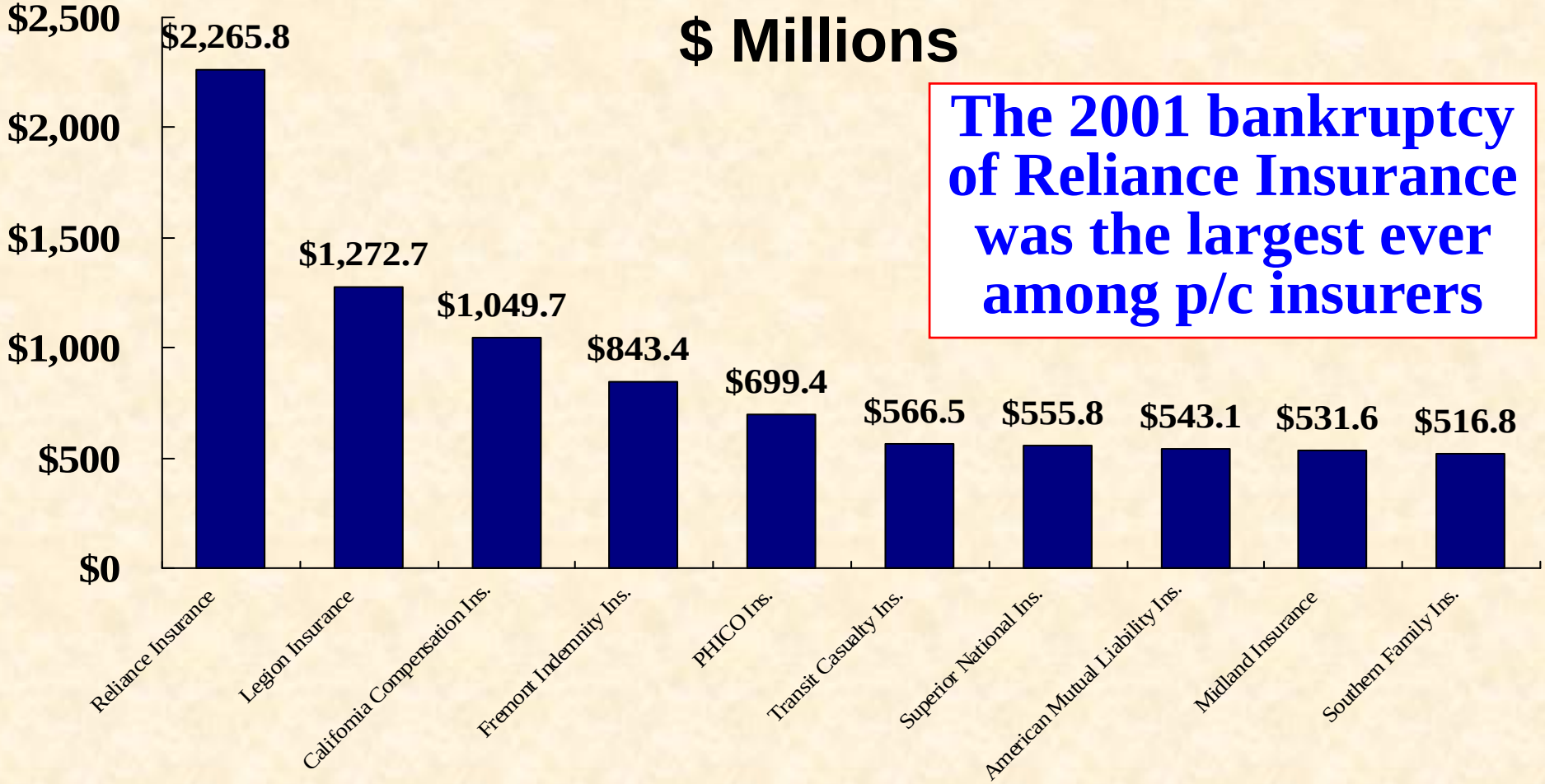
US Bank Failures: 1995-2009***

Through May 1, 2009



*Includes all commercial banking and savings institutions. **Through May 1.
Source: FDIC: http://www.fdic.gov/bank/historical/bank/index.html; Insurance Info. Institute

Top 10 P/C Insolvencies, Based Upon Guaranty Fund Payments*



The 2001 bankruptcy of Reliance Insurance was the largest ever among p/c insurers

* Disclaimer: This is not a complete picture. If anything the numbers are understated as some states have not reported in certain years.

Source: National Conference of Insurance Guaranty Funds, as of September 17, 2008.

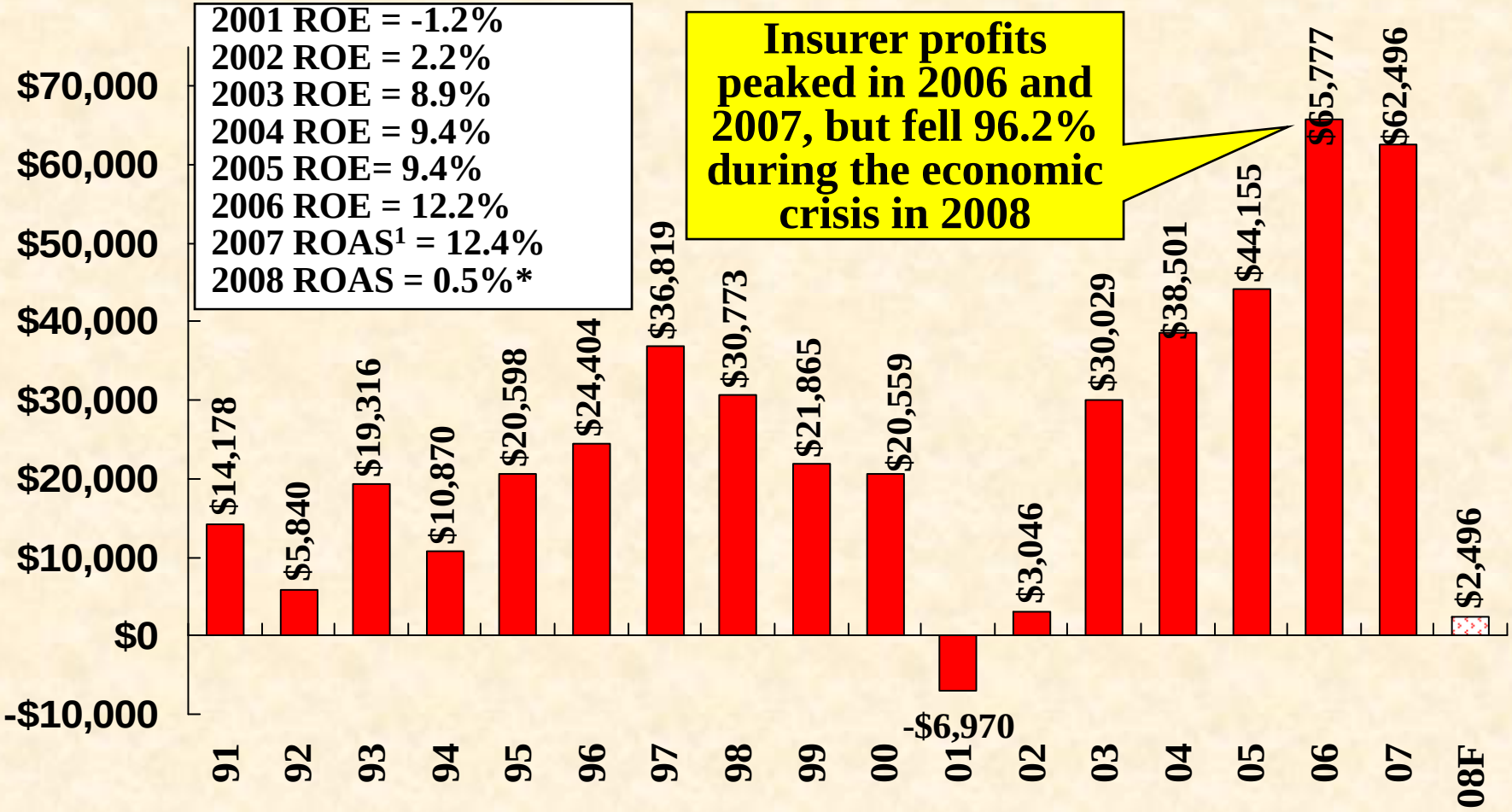
P/C INSURANCE FINANCIAL PERFORMANCE

A Resilient Industry in Challenging Times

Profitability

Historically Volatile

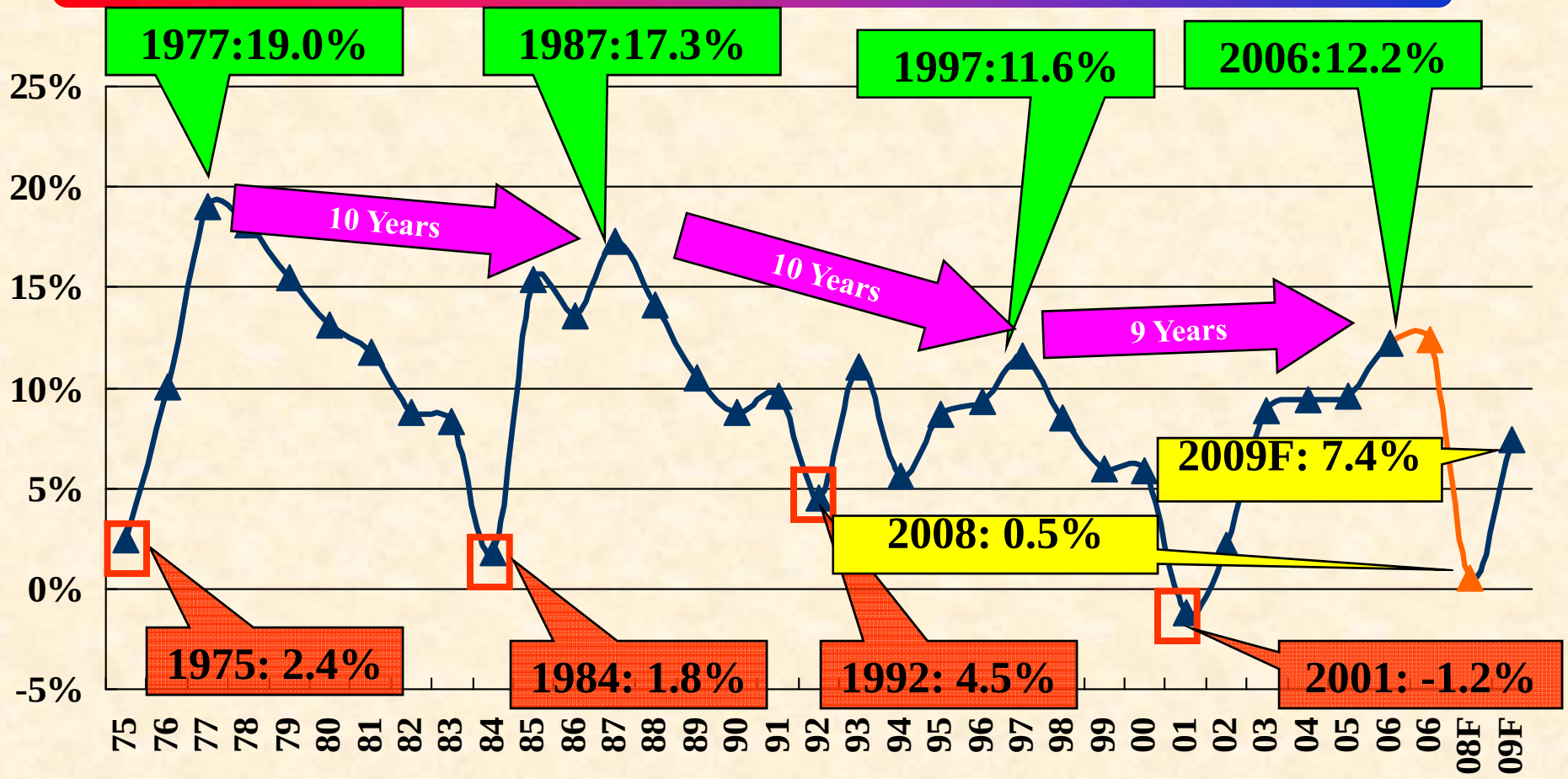
P/C Net Income After Taxes 1991-2008F ($ Millions)*



*ROE figures are GAAP; [1]Return on avg. Surplus. Excluding Mortgage & Financial Guarantee insurers yields an 4.2% ROAS for 2008.

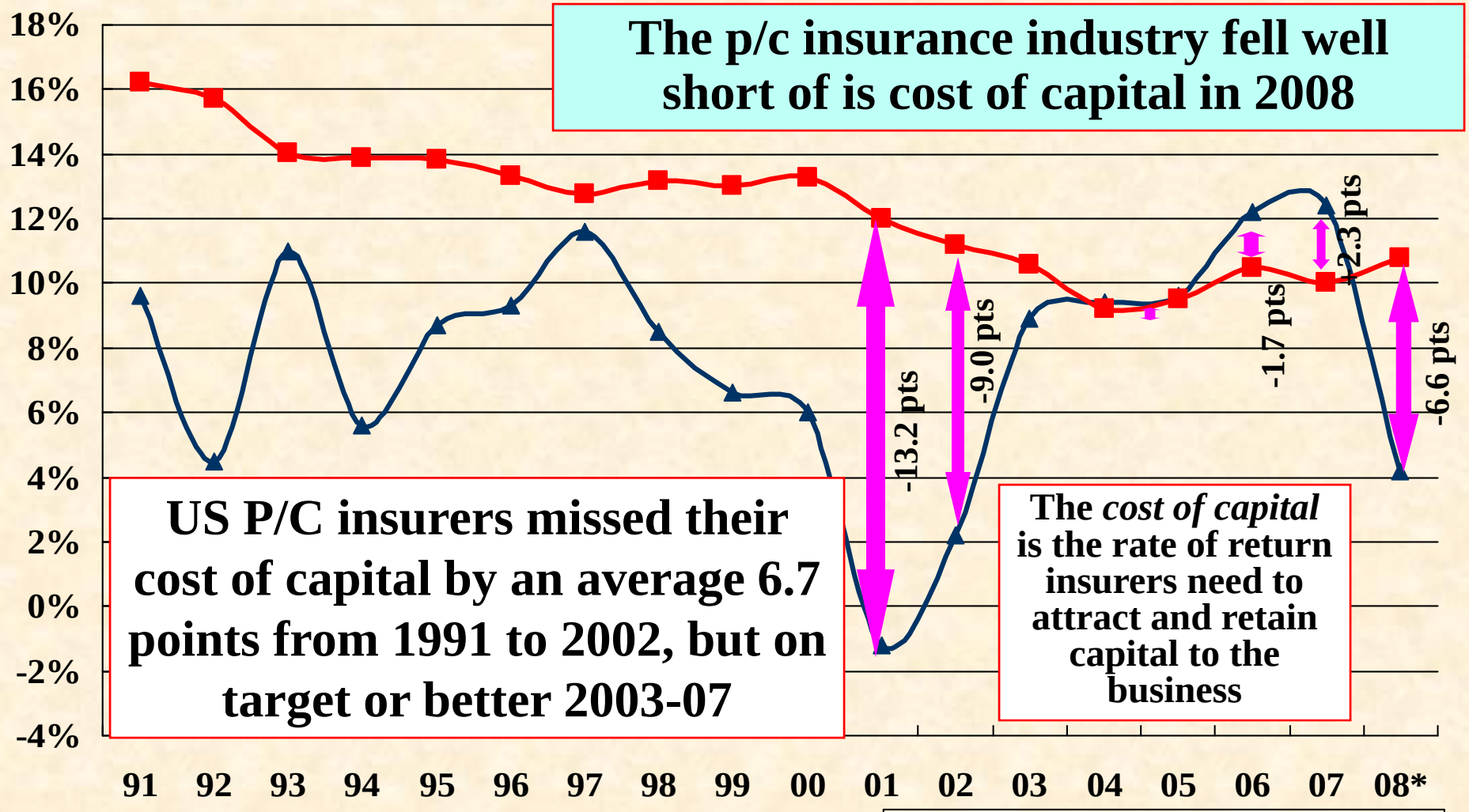
Sources: A.M. Best, ISO, Insurance Information Inst.

P/C Insurance Industry ROEs, 1975 – 2009F*



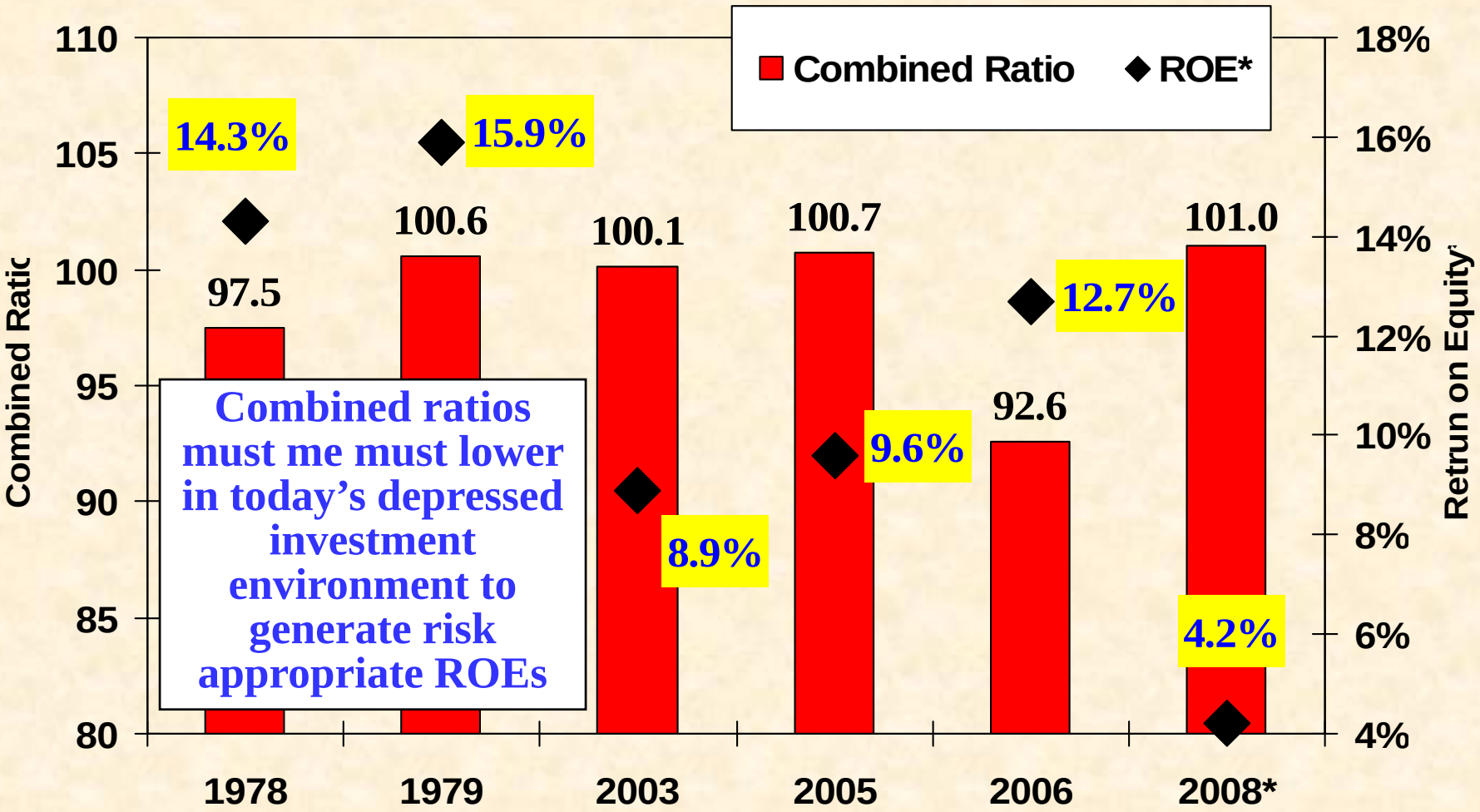
Note: 2008 result excluding Mortgage & Financial Guarantee insurers is 4.2%.
Sources: ISO; A.M. Best (2009F); Insurance Information Institute.

ROE vs. Equity Cost of Capital: US P/C Insurance:1991-2008



*Excludes mortgage and financial guarantee insurers.
Source: The Geneva Association, Ins. Information Inst.

A 100 Combined Ratio Isn't What it Used to Be: 95 is Where It's At



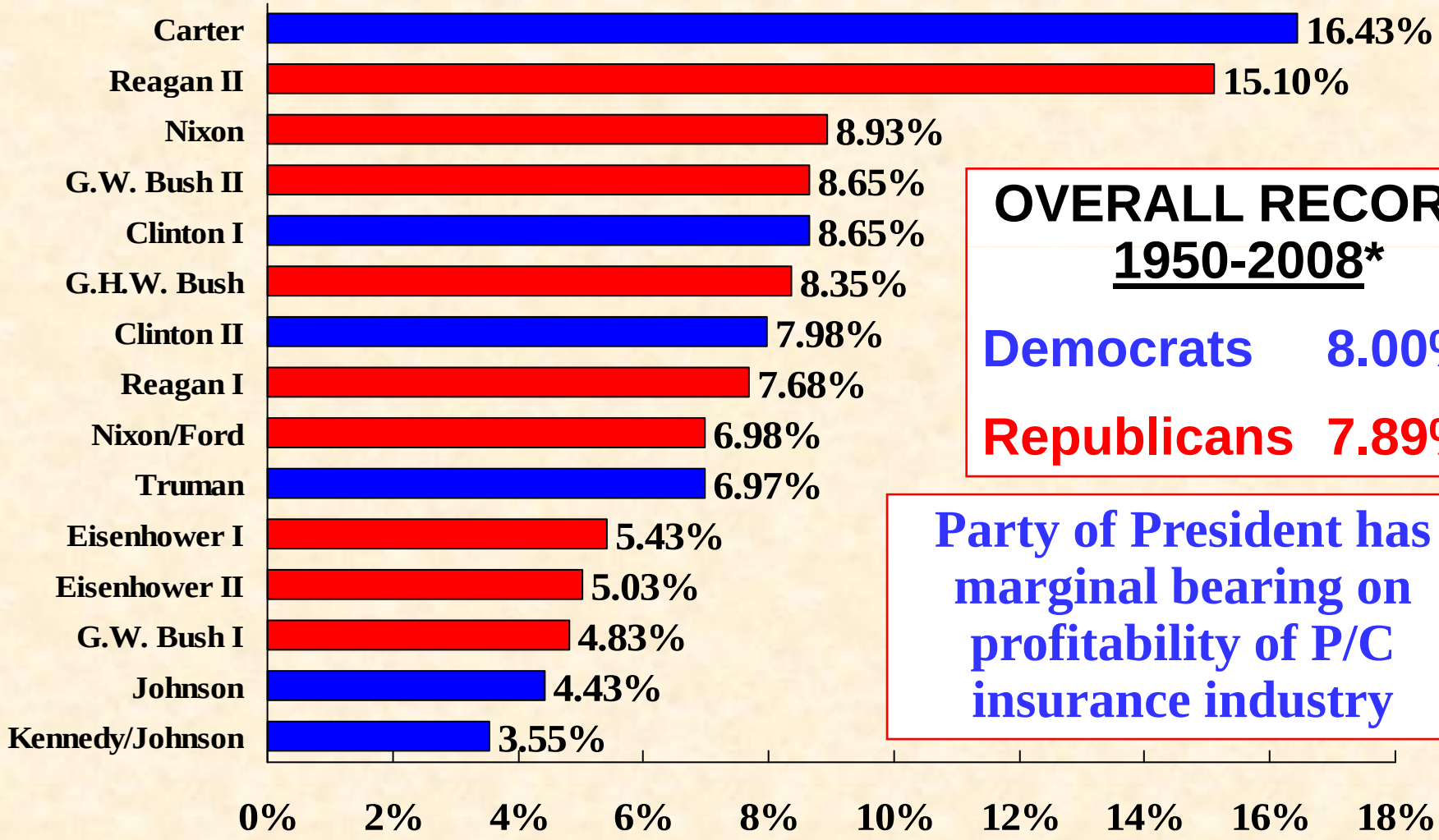
* 2008 figure is return on average statutory surplus. Excludes mortgage and financial guarantee insurers.

Source: Insurance Information Institute from A.M. Best and ISO data.

Presidential Politics & P/C Insurance

How is Profitability Affected by the President's Political Party?

*P/C Insurance Industry ROE by Presidential Administration,1950-2008**



OVERALL RECORD: 1950-2008*

Democrats	8.00%
Republicans	7.89%

Party of President has marginal bearing on profitability of P/C insurance industry

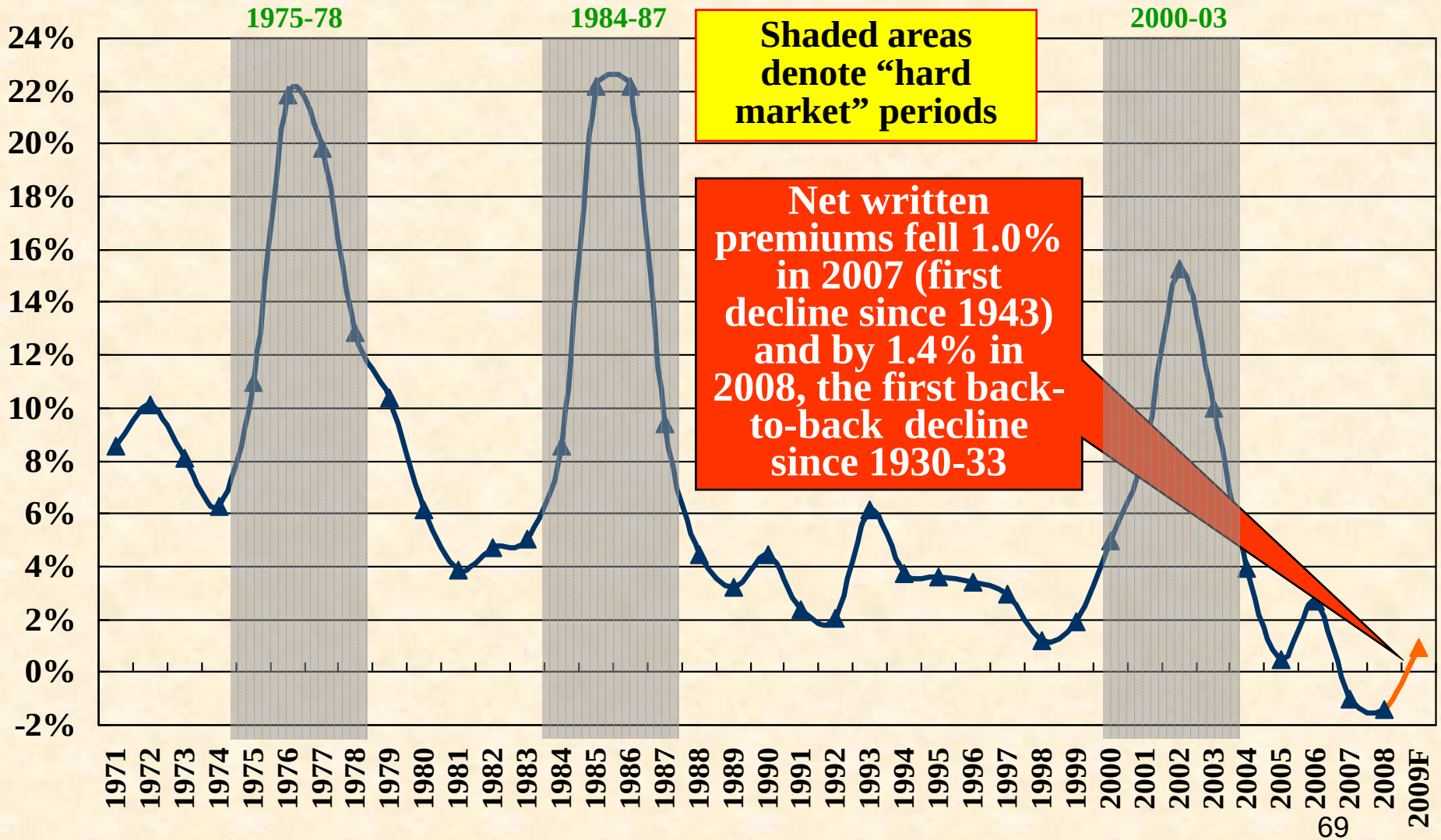
*Truman administration ROE of 6.97% based on 3 years only, 1950-52.

Source: Insurance Information Institute

P/C Premium Growth

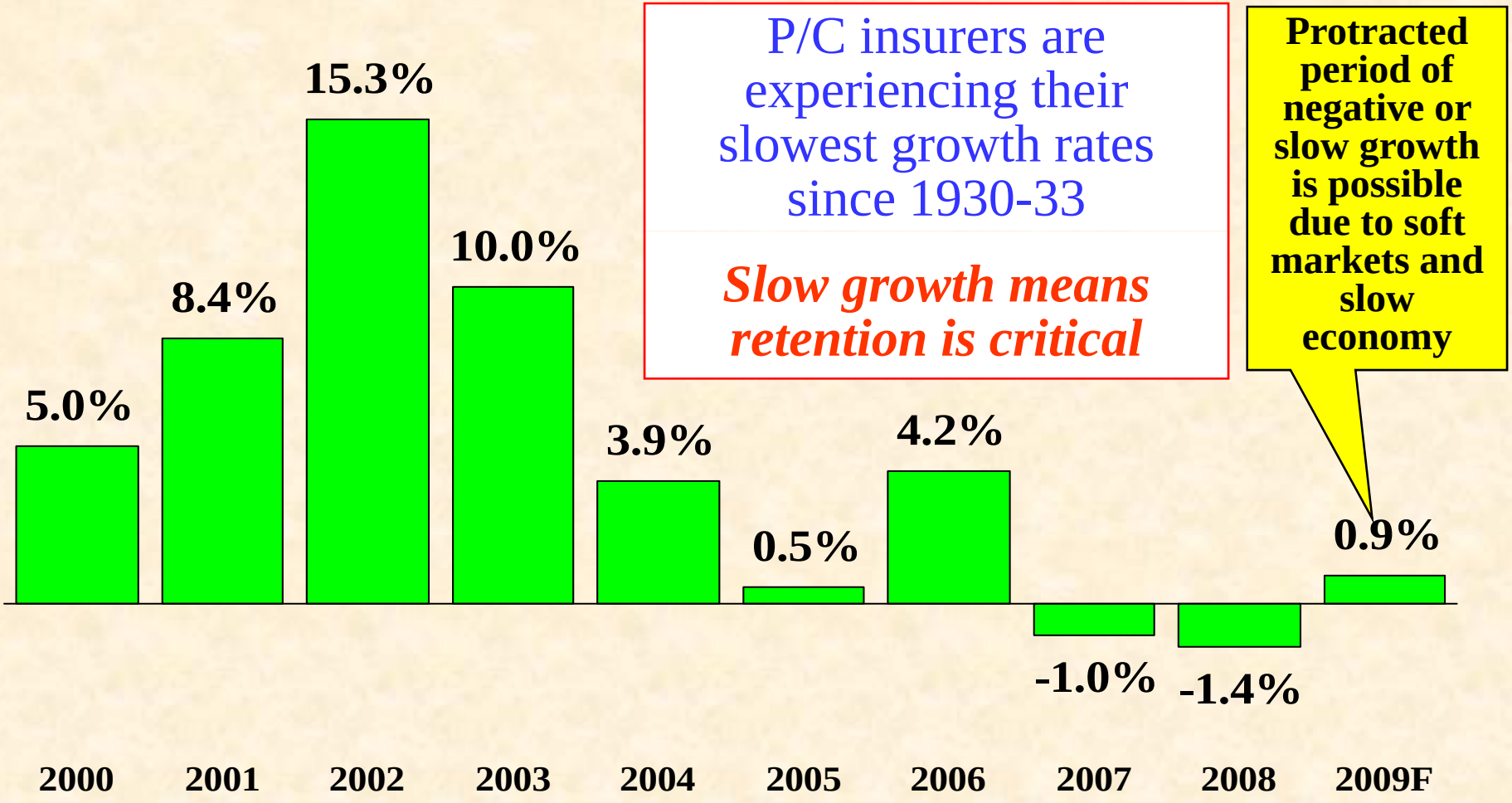
Primarily Driven by the Industry's Underwriting Cycle, Not the Economy

Strength of Recent Hard Markets by NWP Growth



Sources: A.M. Best (historical and forecast), ISO, Insurance Information Institute

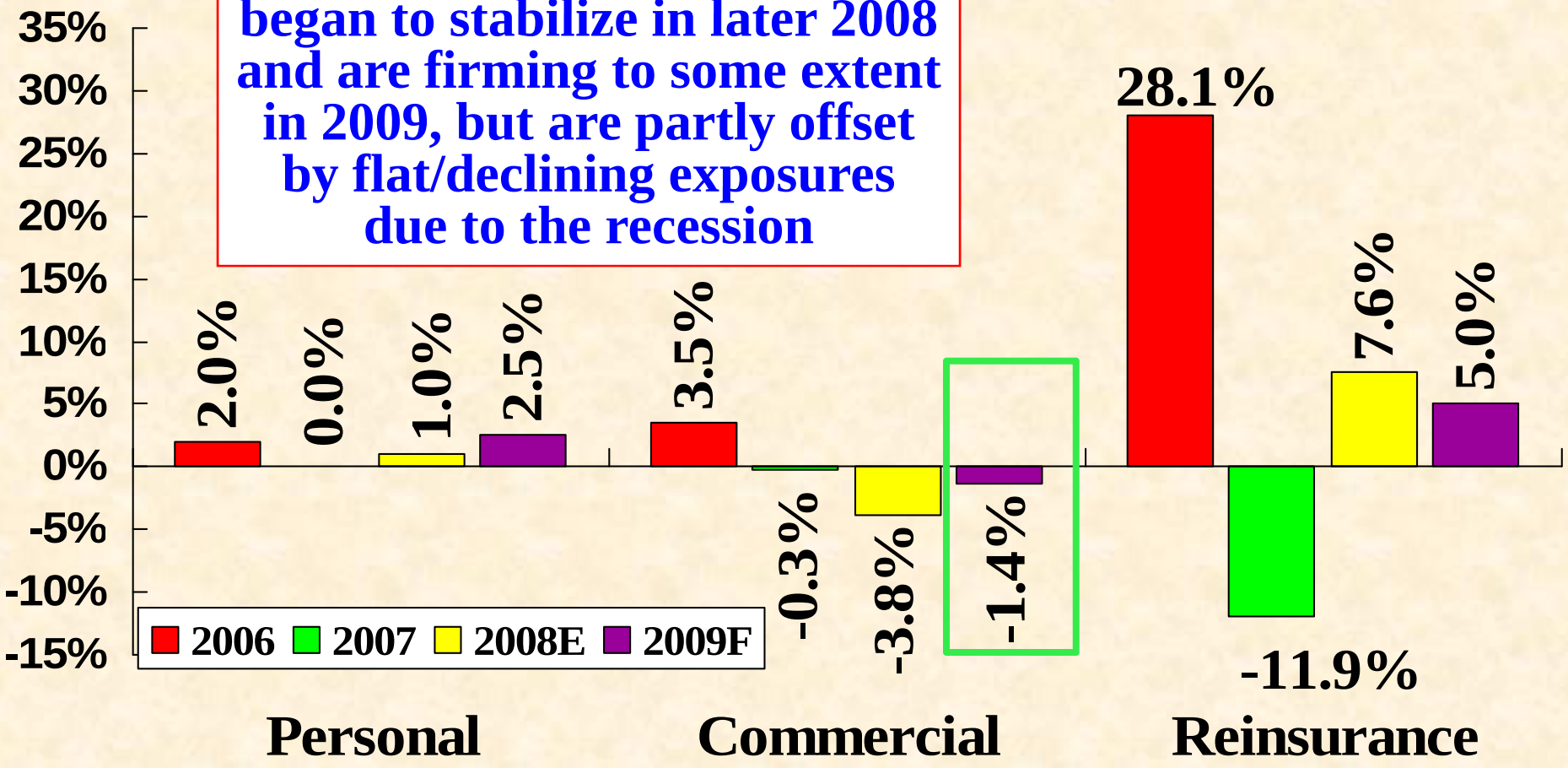
*Year-to-Year Change in Net Written Premium, 2000-2009F**



*2008 figure is from ISO. Excluding Mortgage & Financial Guarantee insurers = -1.5%.
Source: A.M. Best (historical and forecast)

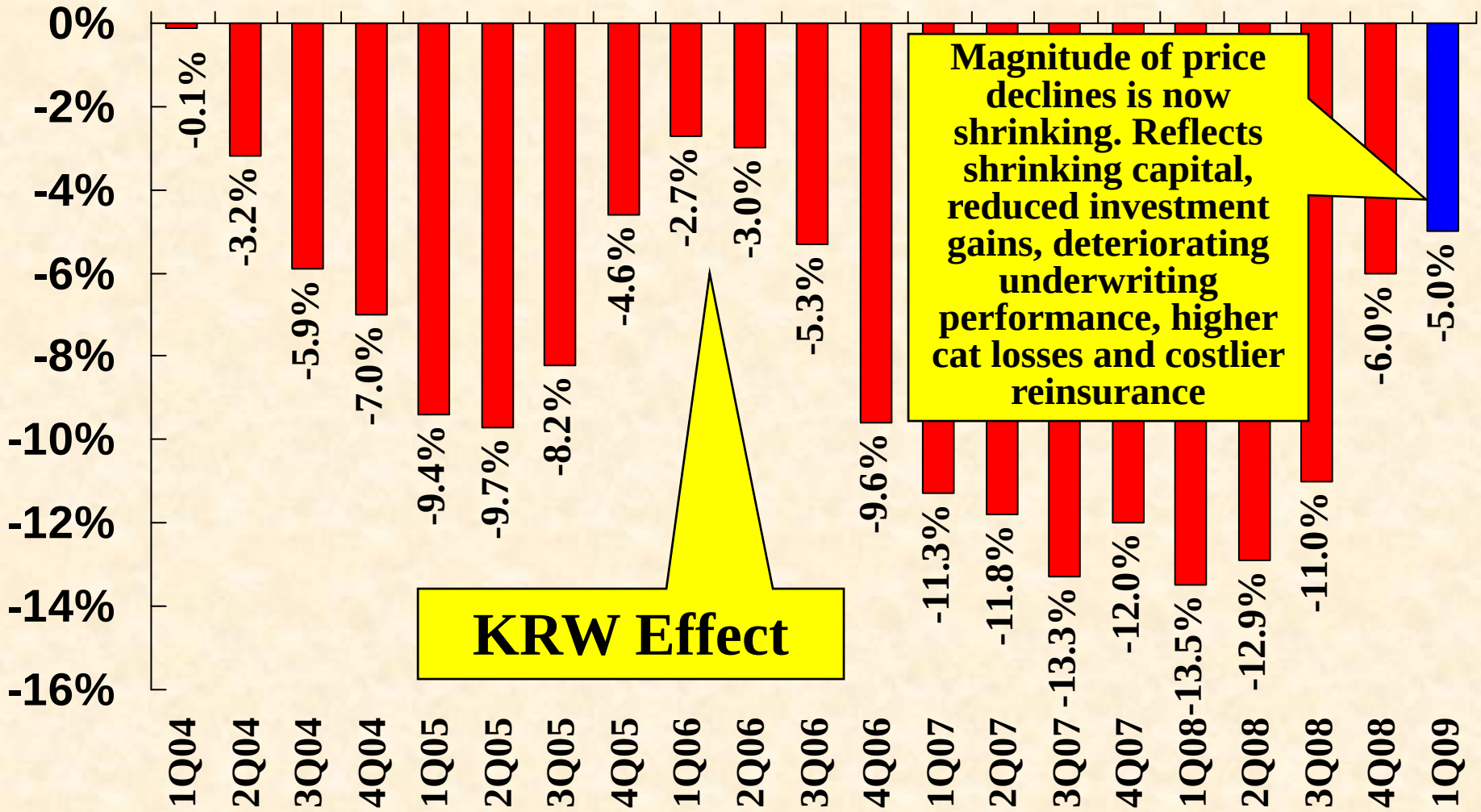
Personal/Commercial Lines & Reinsurance NPW Growth, 2006-2009F

Declines in premium growth began to stabilize in later 2008 and are firming to some extent in 2009, but are partly offset by flat/declining exposures due to the recession



Sources: A.M. Best Review & Preview, Feb. 2009

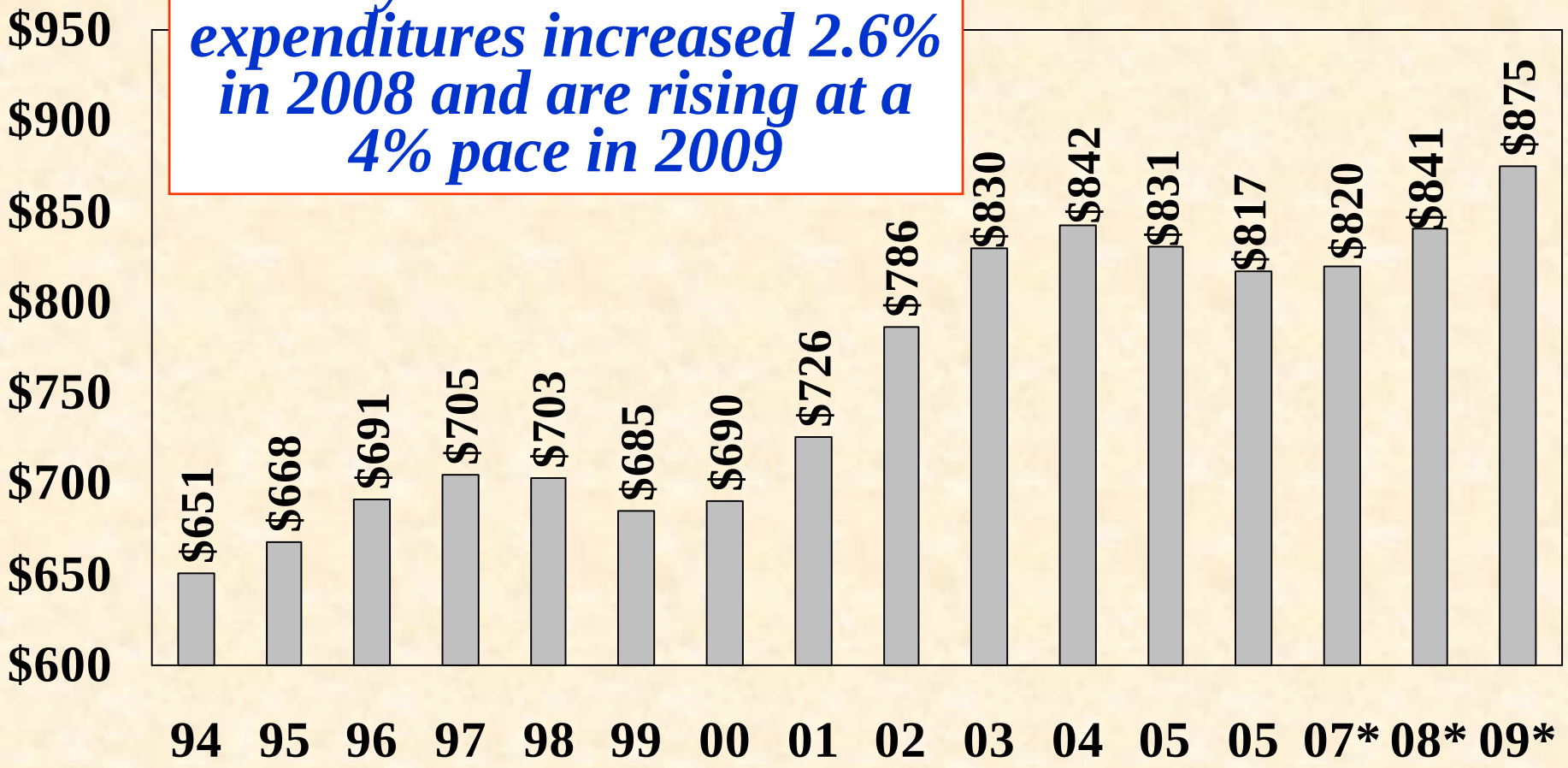
Average Commercial Rate Change, All Lines, (1Q:2004 – 1Q:2009)



Source: Council of Insurance Agents & Brokers; Insurance Information Institute

Average Expenditures on Auto Insurance

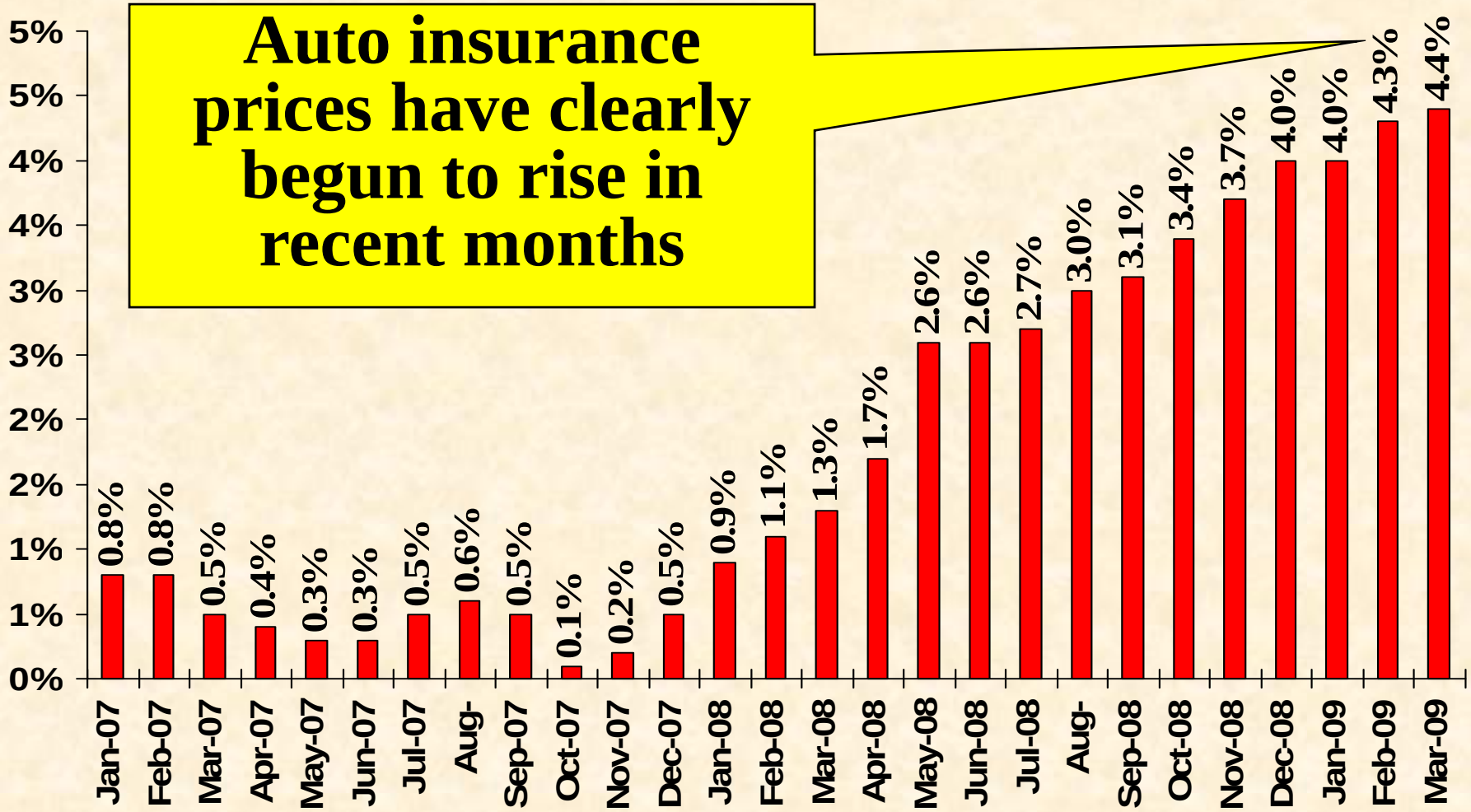
Countrywide auto insurance expenditures increased 2.6% in 2008 and are rising at a 4% pace in 2009



*Insurance Information Institute Estimates/Forecasts

Source: NAIC, Insurance Information Institute estimates 2007-2009 based on CPI data.

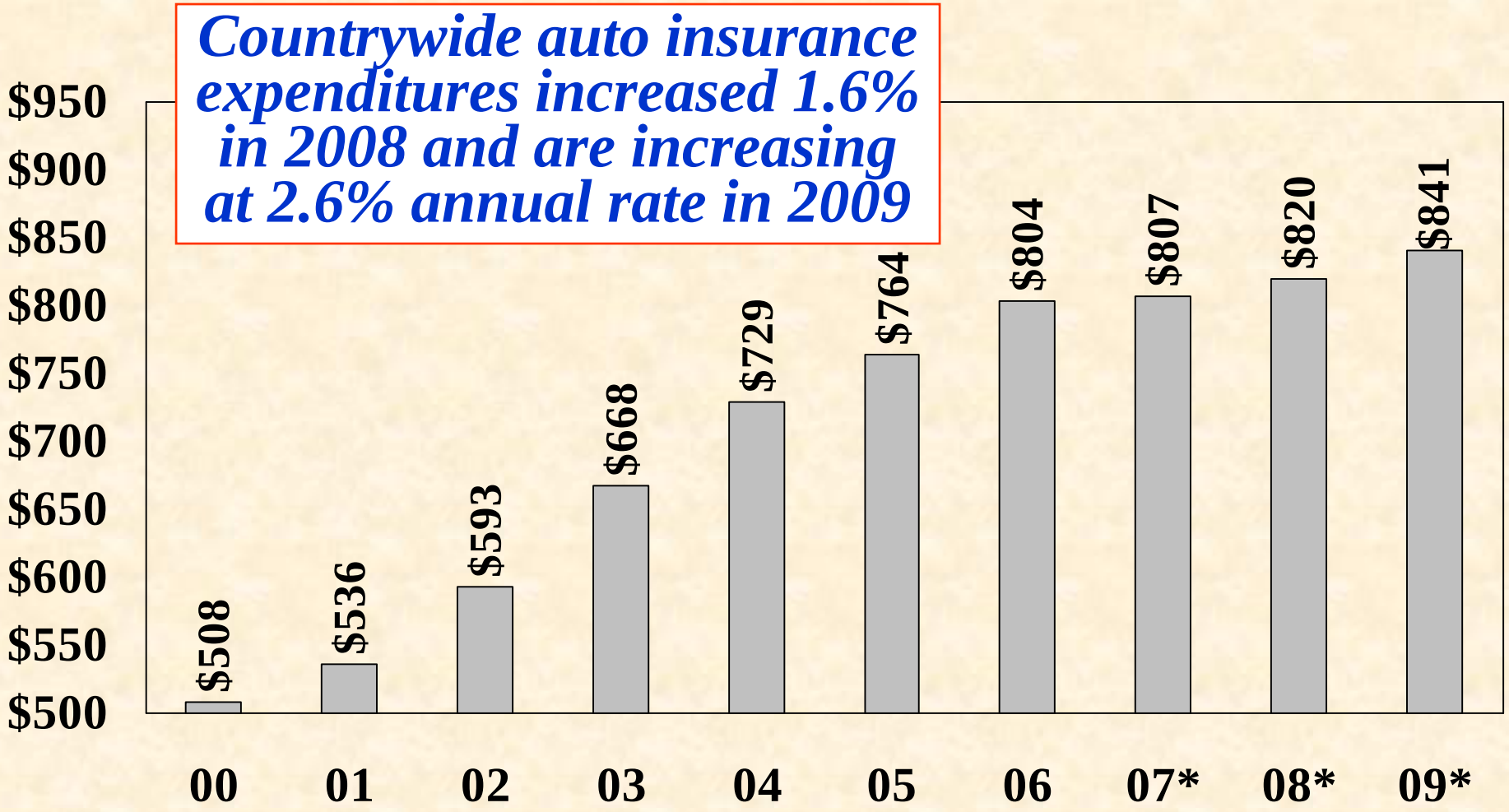
*Monthly Change in Auto Insurance Prices**



*Percentage change from same month in prior year.

Source: US Bureau of Labor Statistics

*Average Premium for Home Insurance Policies***

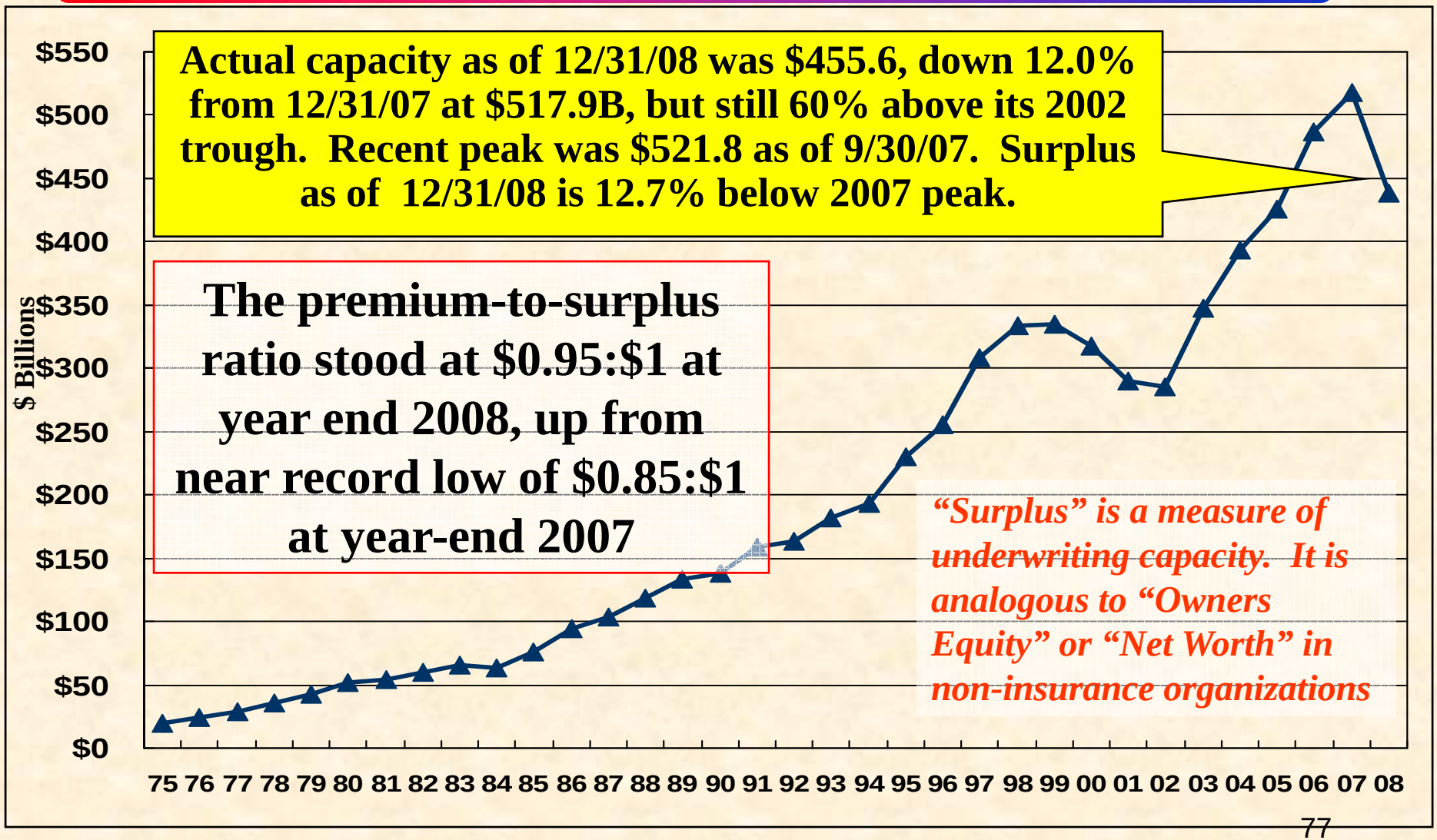


*Insurance Information Institute Estimates/Forecasts **Excludes state-run insurers.
Source: NAIC, Insurance Information Institute estimates 2007-2009 based on CPI data.

Capital/ Policyholder Surplus

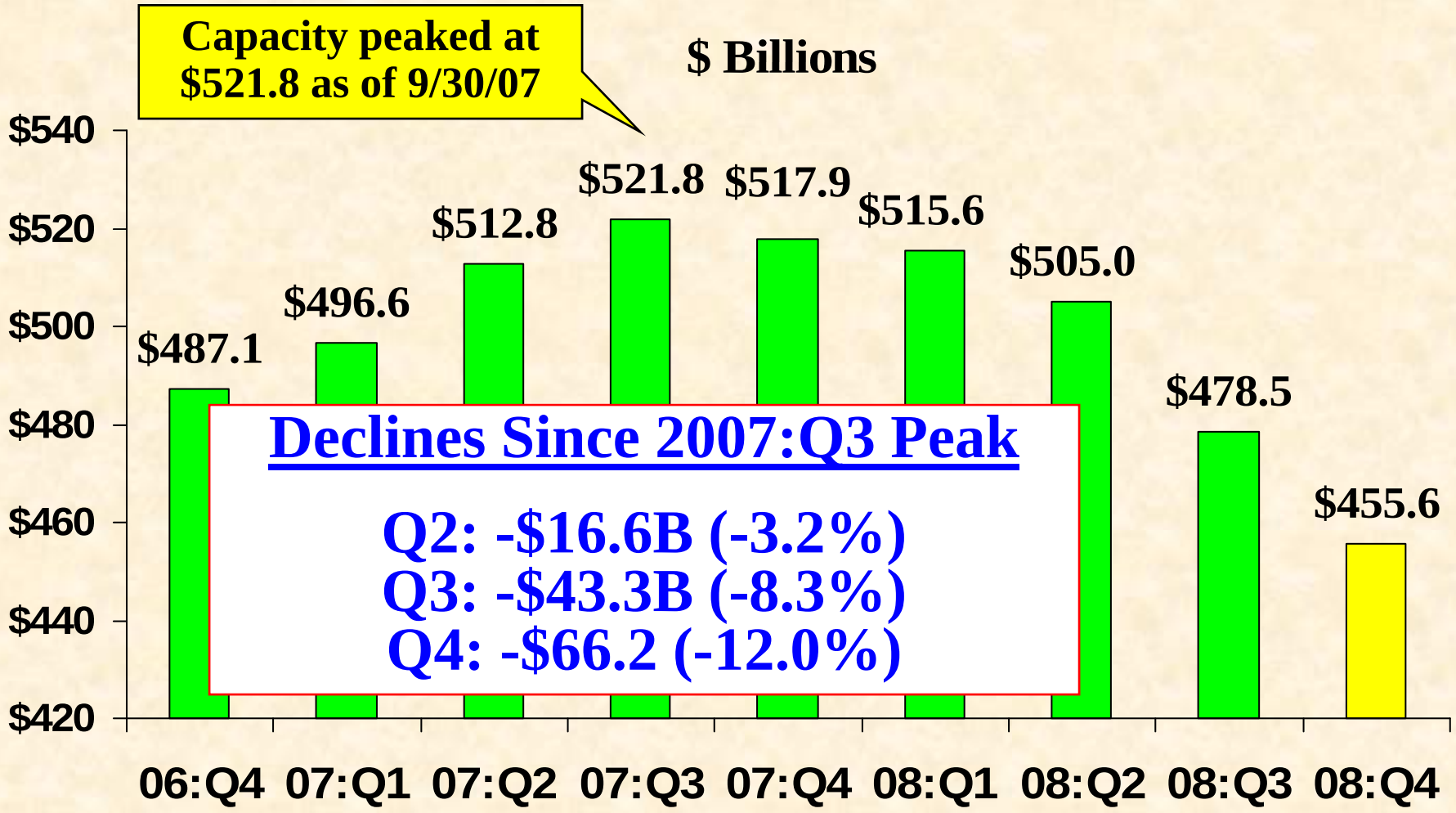
Shrinkage, but Capital is Within Historic Norms

U.S. Policyholder Surplus: 1975-2008*



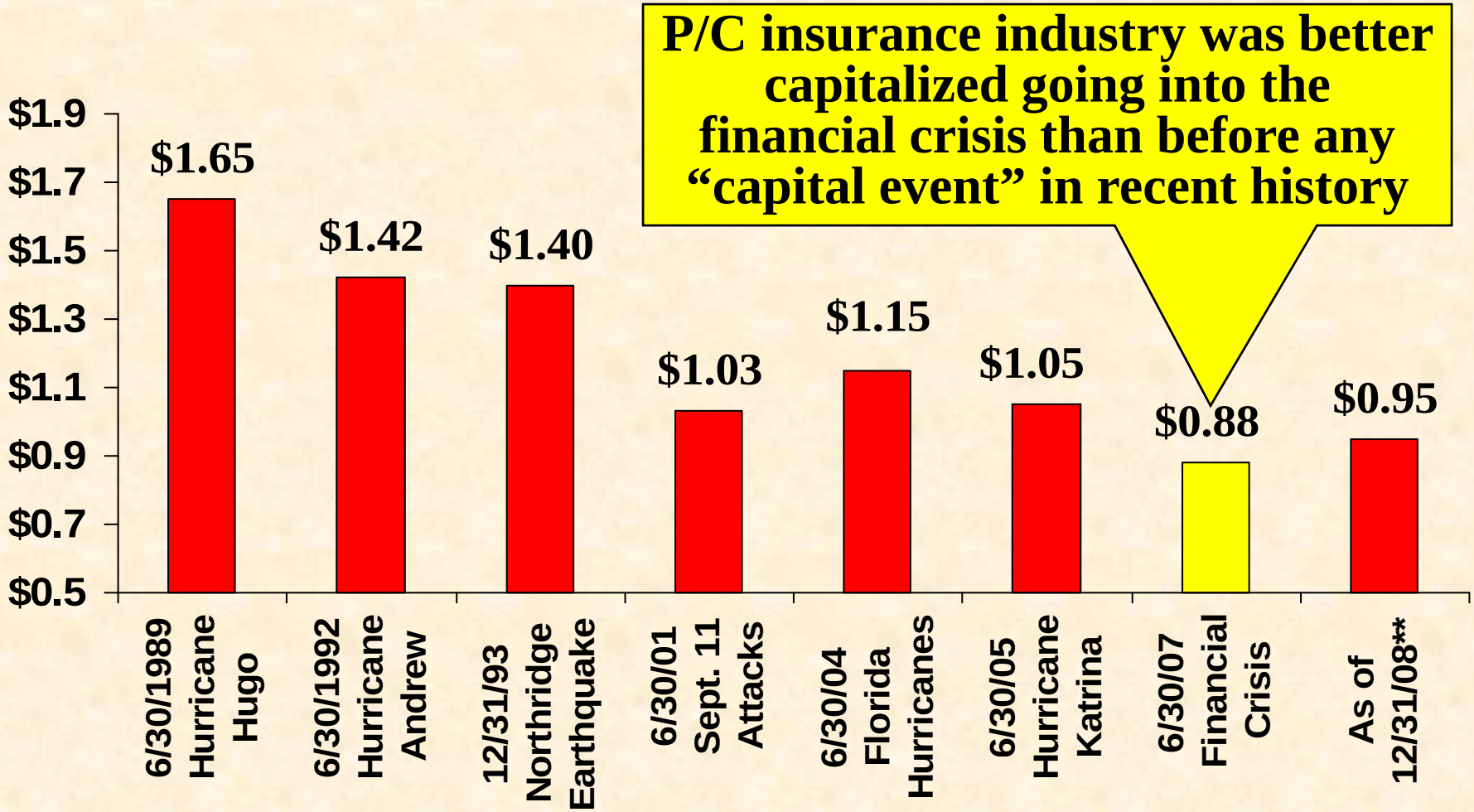
Source: A.M. Best, ISO, Insurance Information Institute. *As of 12/31/08

Policyholder Surplus, 2006:Q4 – 2008:Q4



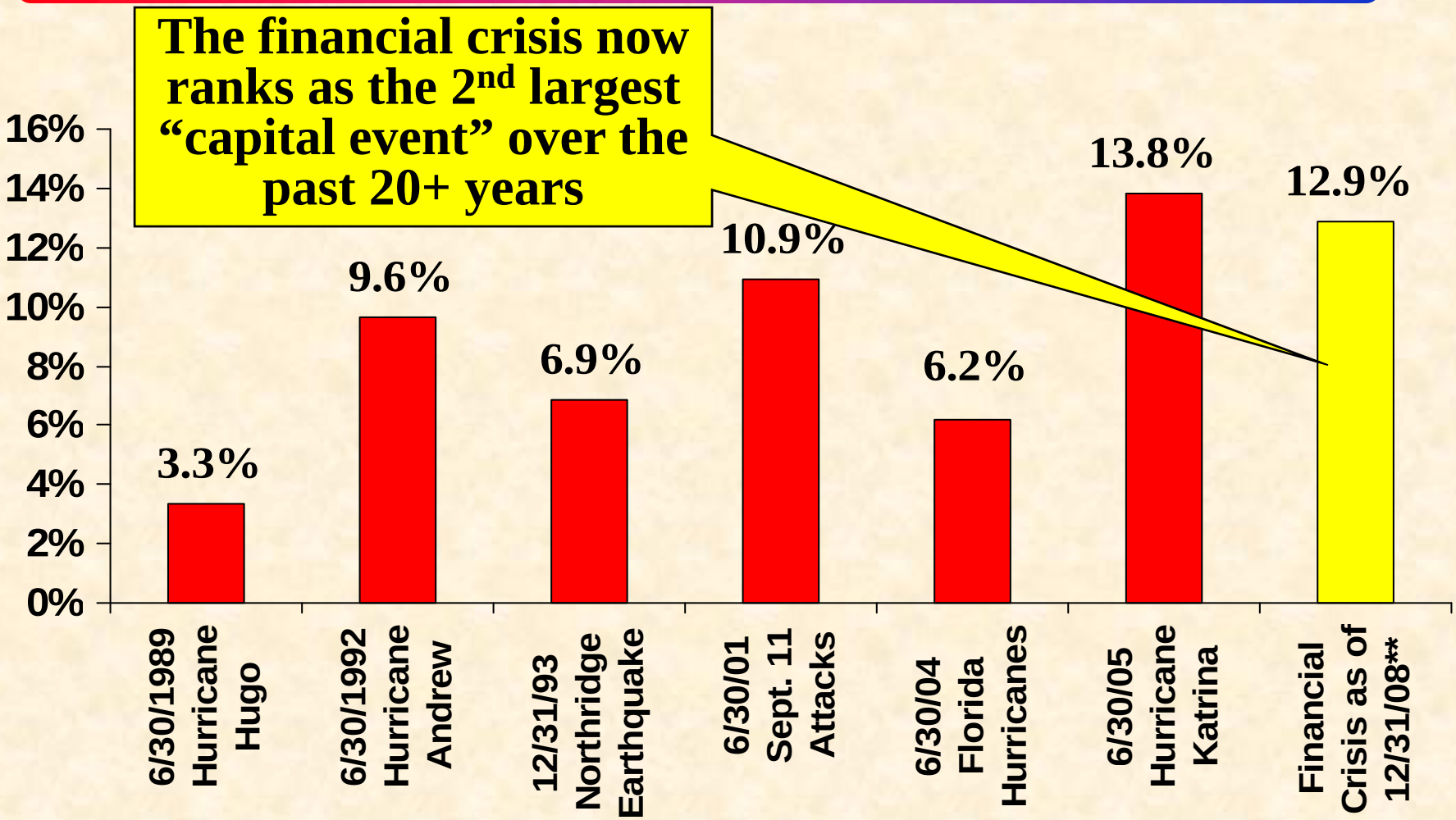
Source: ISO.

*Premium-to-Surplus Ratios Before Major Capital Events**



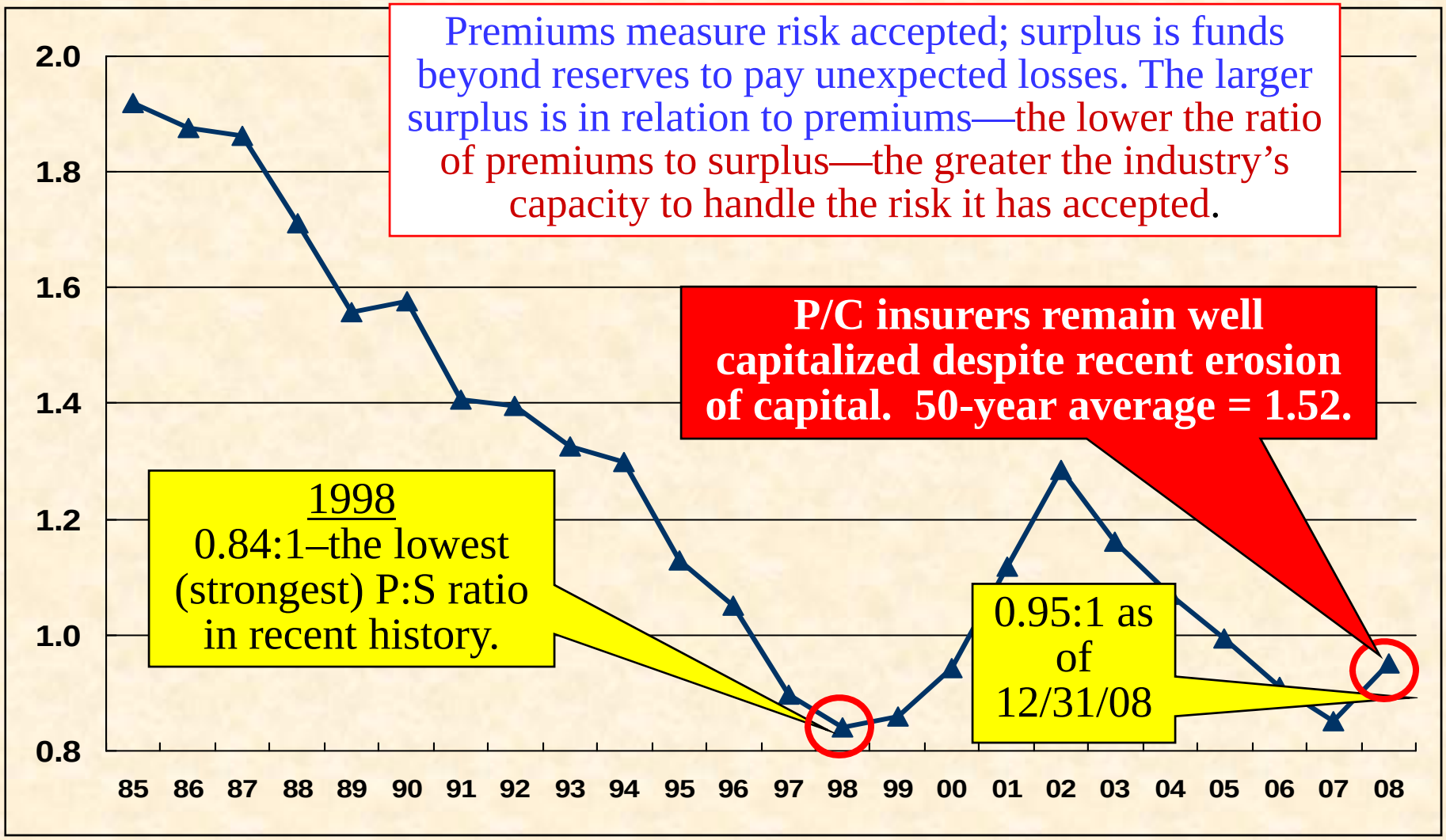
*Ratio is for end of quarter immediately prior to event. Date shown is end of quarter prior to event.
**Latest available
Source: PCS; Insurance Information Institute.

*Ratio of Insured Loss to Surplus for Largest Capital Events Since 1989**



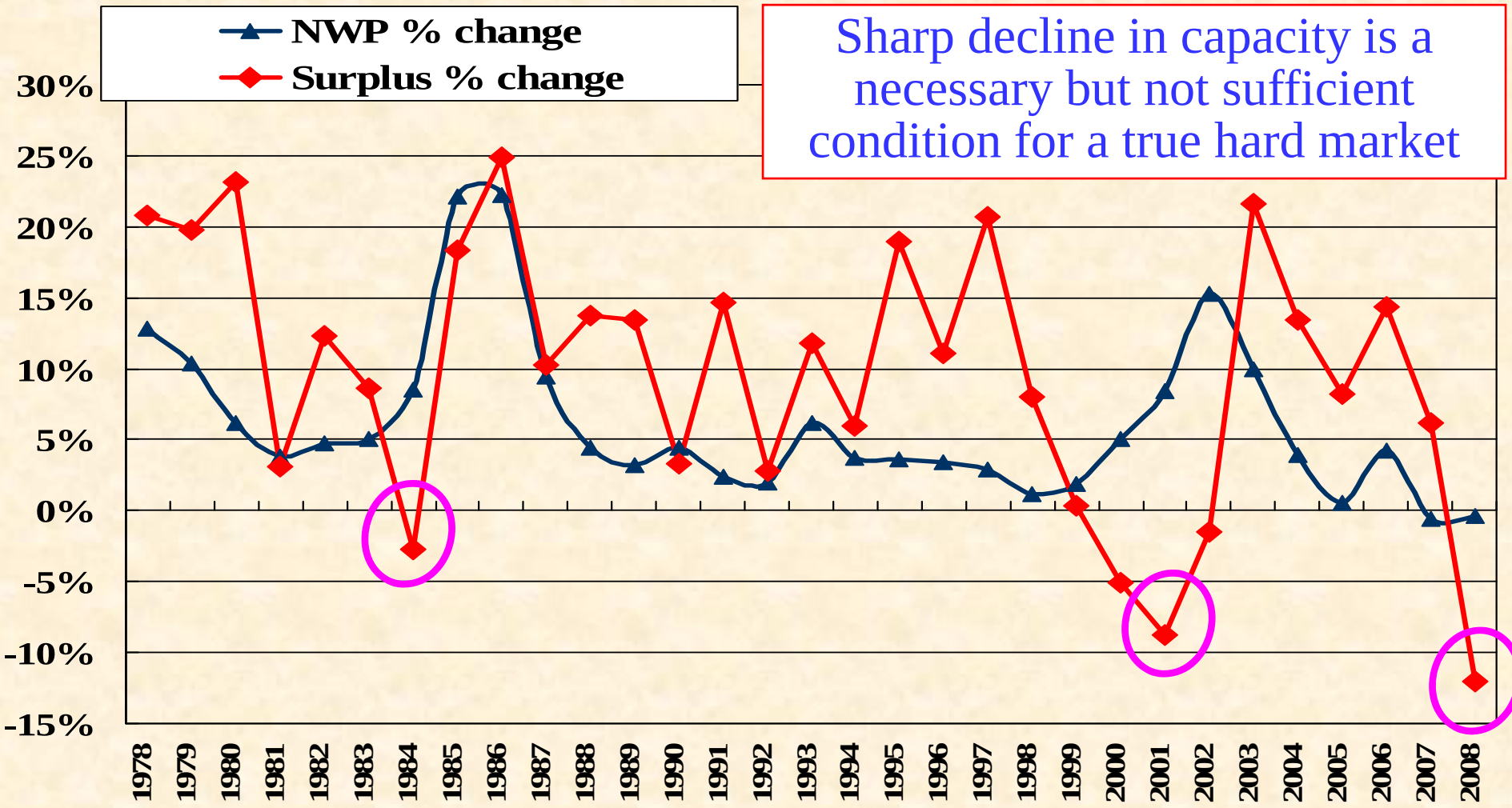
*Ratio is for end-of-quarter surplus immediately prior to event. Date shown is end of quarter prior to event.
**Latest available
Source: PCS; Insurance Information Institute.

U.S. P/C Industry Premiums-to-Surplus Ratio: 1985-2008



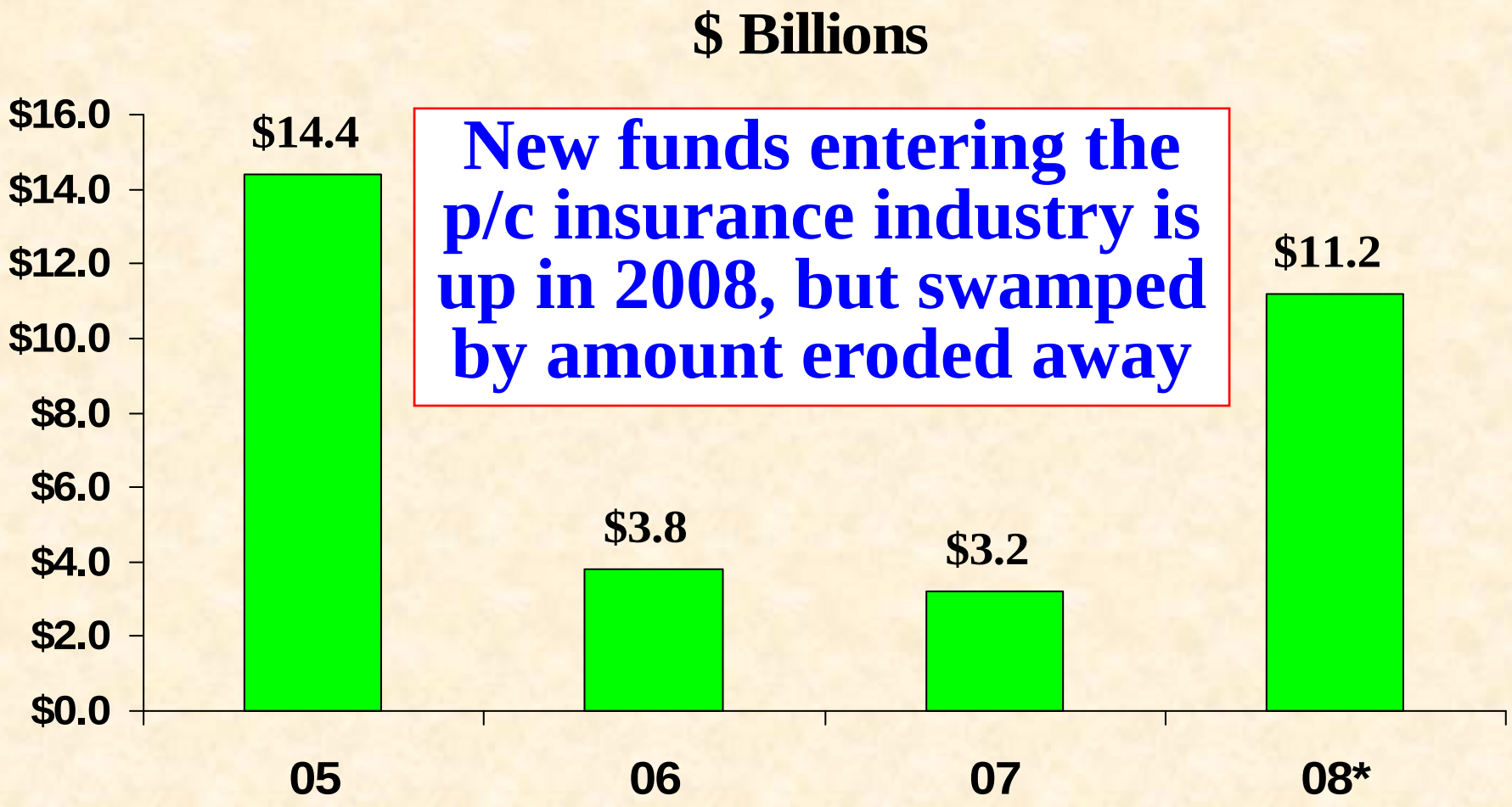
Sources: A.M. Best, ISO, Insurance Information Institute.

Historically, Hard Markets Follow When Surplus "Growth" is Negative



Sources: A.M. Best, ISO, Insurance Information Institute

New Funds Contributing to US Policyholder Surplus, 2005-2008



*Through Q4 2009 (latest available).
Source: ISO; Insurance Information Institute

Investment Performance

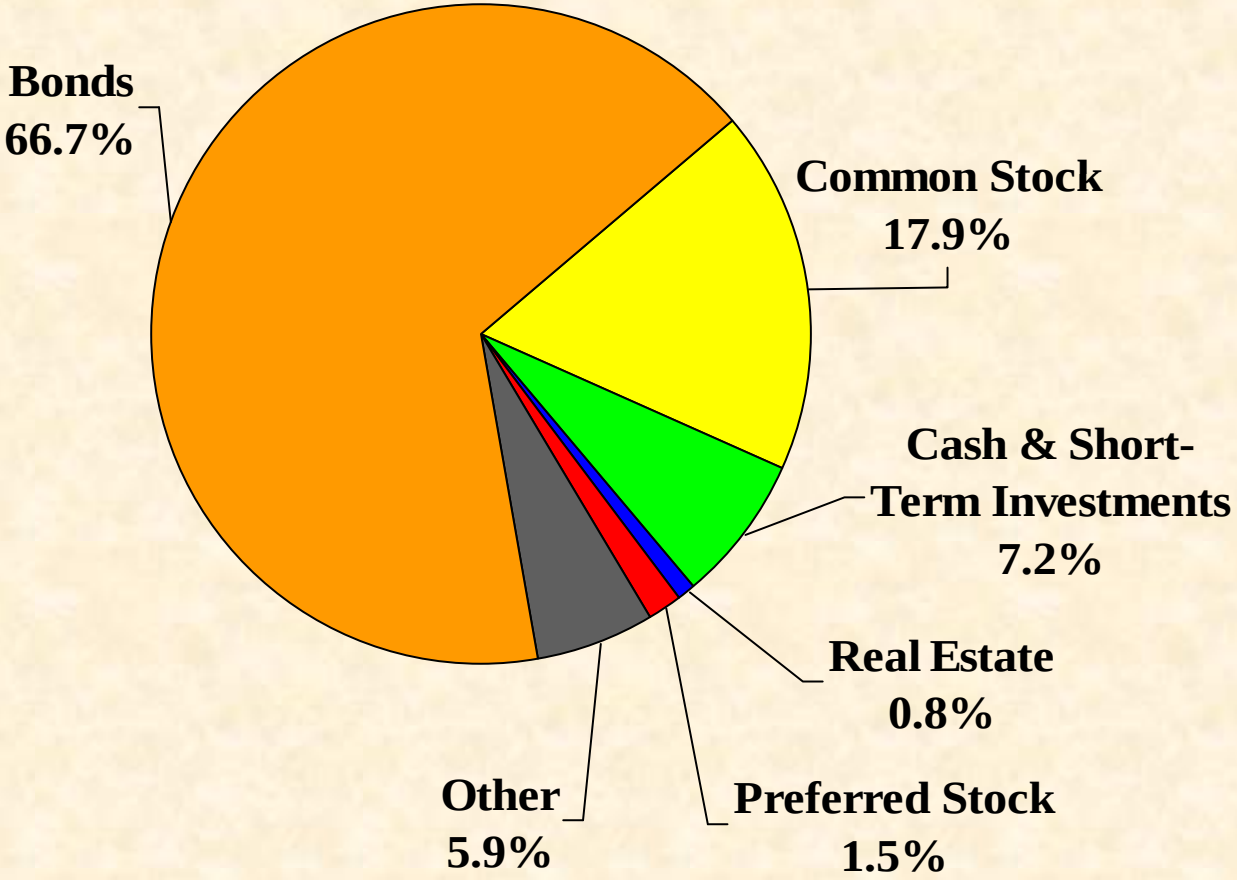
Investments are the Principle Source of Declining Profitability

Distribution of P/C Insurance Industry's Investment Portfolio

As of December 31, 2007

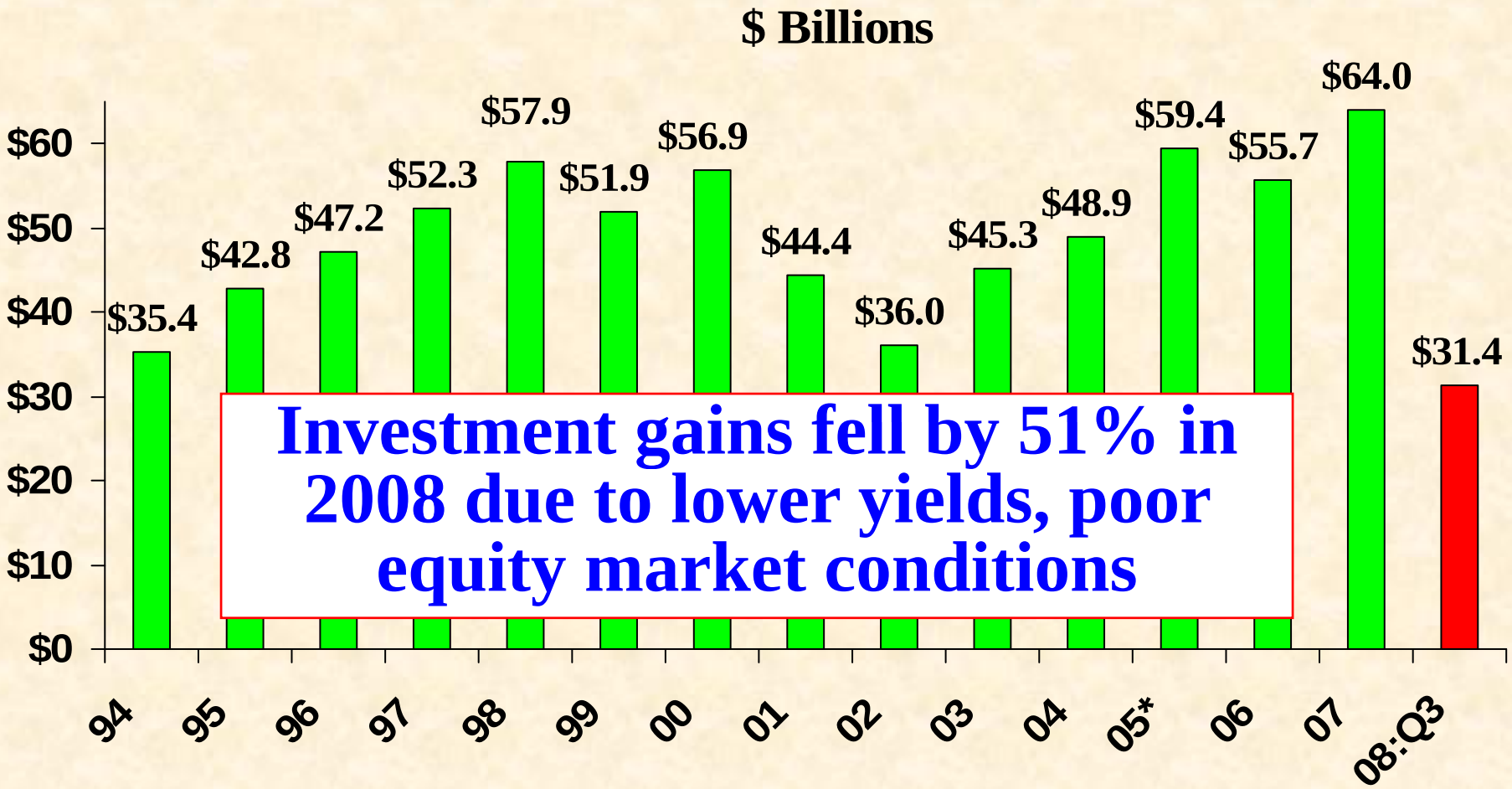
Portfolio Facts

- **Invested assets totaled $1.3 trillion as of 12/31/07**
- **Insurers are generally conservatively invested, with 2/3 of assets invested in bonds as of 12/31/07**
- **Only about 18% of assets were invested in common stock as of 12/31/07**
- **Even the most conservative of portfolios was hit hard in 2008**



Source: NAIC; Insurance Information Institute research;.

Property/Casualty Insurance Industry Investment Gain:1994- 2008[1]



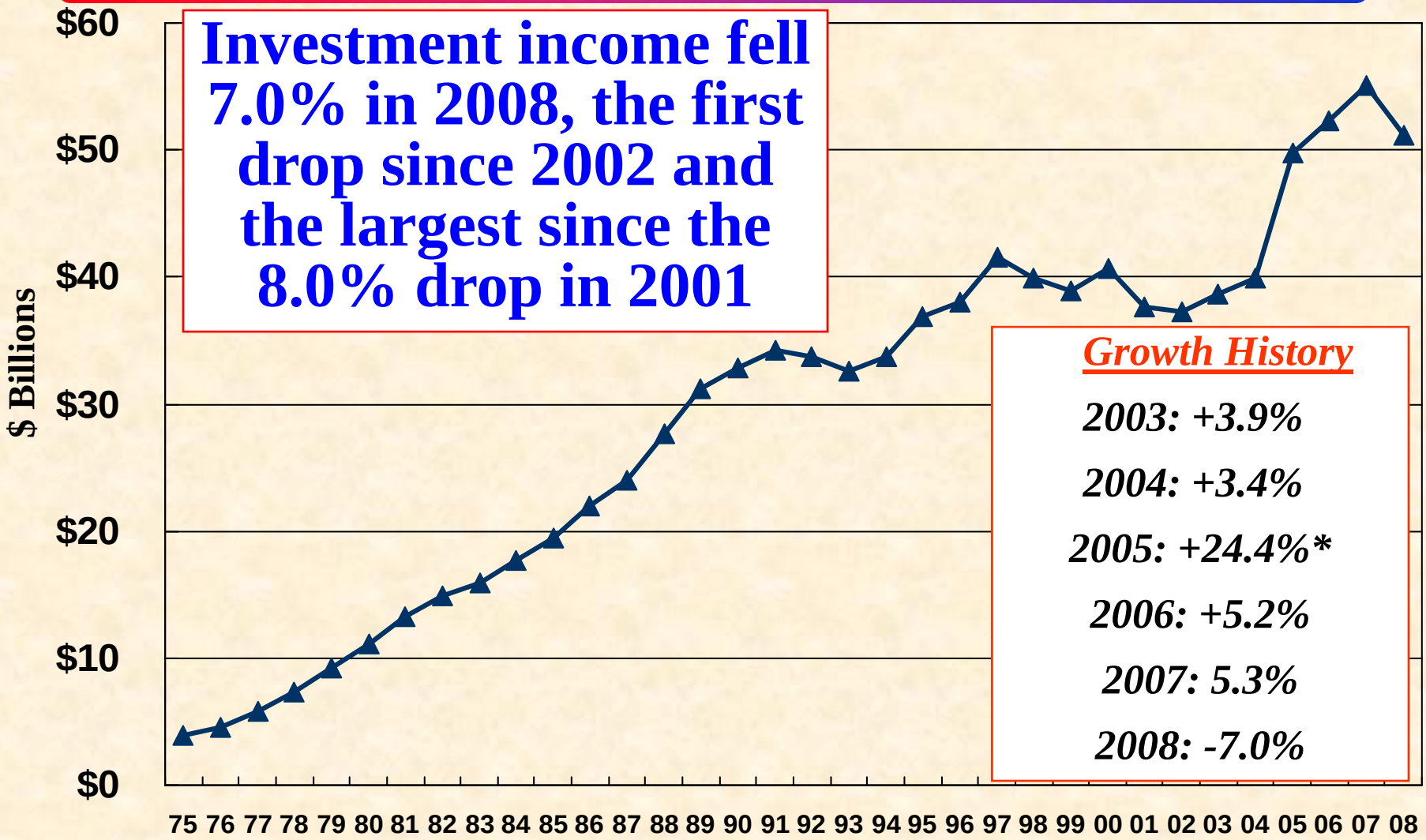
Investment gains fell by 51% in 2008 due to lower yields, poor equity market conditions

[1]Investment gains consist primarily of interest, stock dividends and realized capital gains and losses. 2006 figure consists of $52.3B net investment income and $3.4B realized investment gain.

*2005 figure includes special one-time dividend of $3.2B.

Sources: ISO; Insurance Information Institute.

Net Investment Income



Investment income fell 7.0% in 2008, the first drop since 2002 and the largest since the 8.0% drop in 2001

Growth History

2003: +3.9%

2004: +3.4%

*2005: +24.4%**

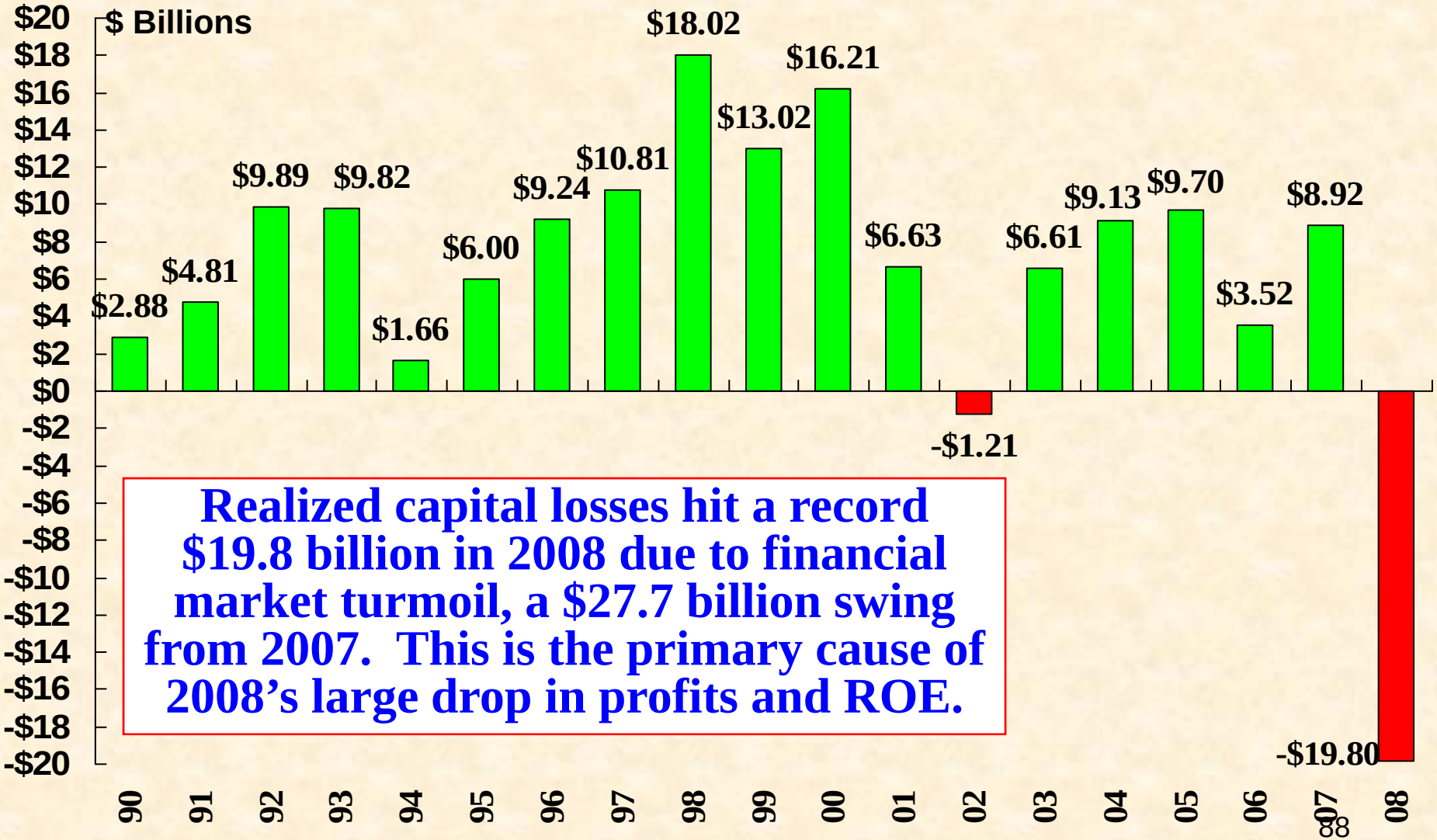
2006: +5.2%

2007: 5.3%

2008: -7.0%

Source: A.M. Best, ISO, Insurance Information Institute;
*Includes special dividend of $3.2B. Increase is 15.7% excluding dividend.

P/C Insurer Net Realized Capital Gains, 1990-2008



Realized capital losses hit a record $19.8 billion in 2008 due to financial market turmoil, a $27.7 billion swing from 2007. This is the primary cause of 2008's large drop in profits and ROE.

Sources: A.M. Best, ISO, Insurance Information Institute.

*Total Returns for Large Company Stocks: 1970-2009**

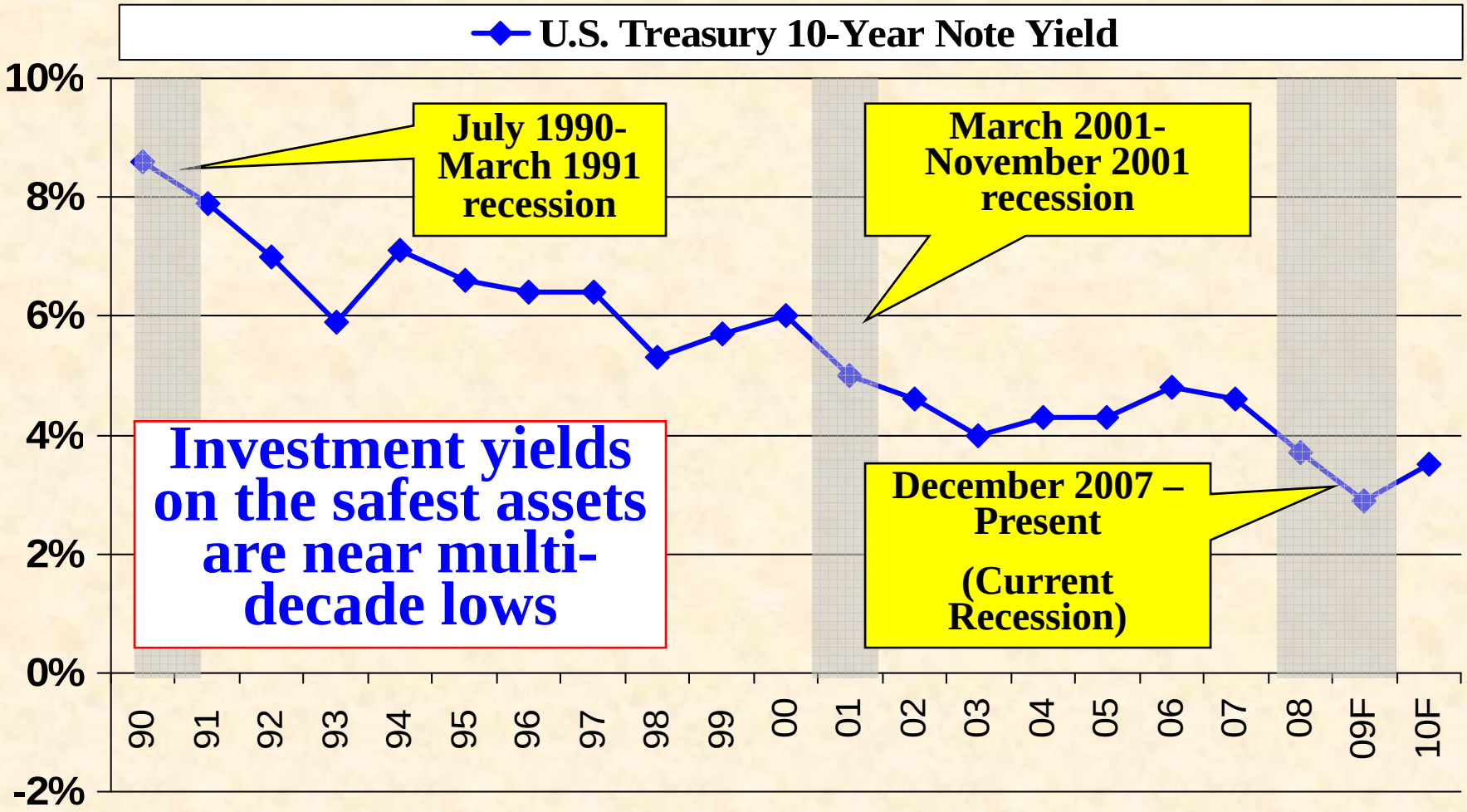
S&P 500 is down 2.9% in 2009*

The market crash of 2008 was the biggest since 1931

Source: Ibbotson Associates, Insurance Information Institute.

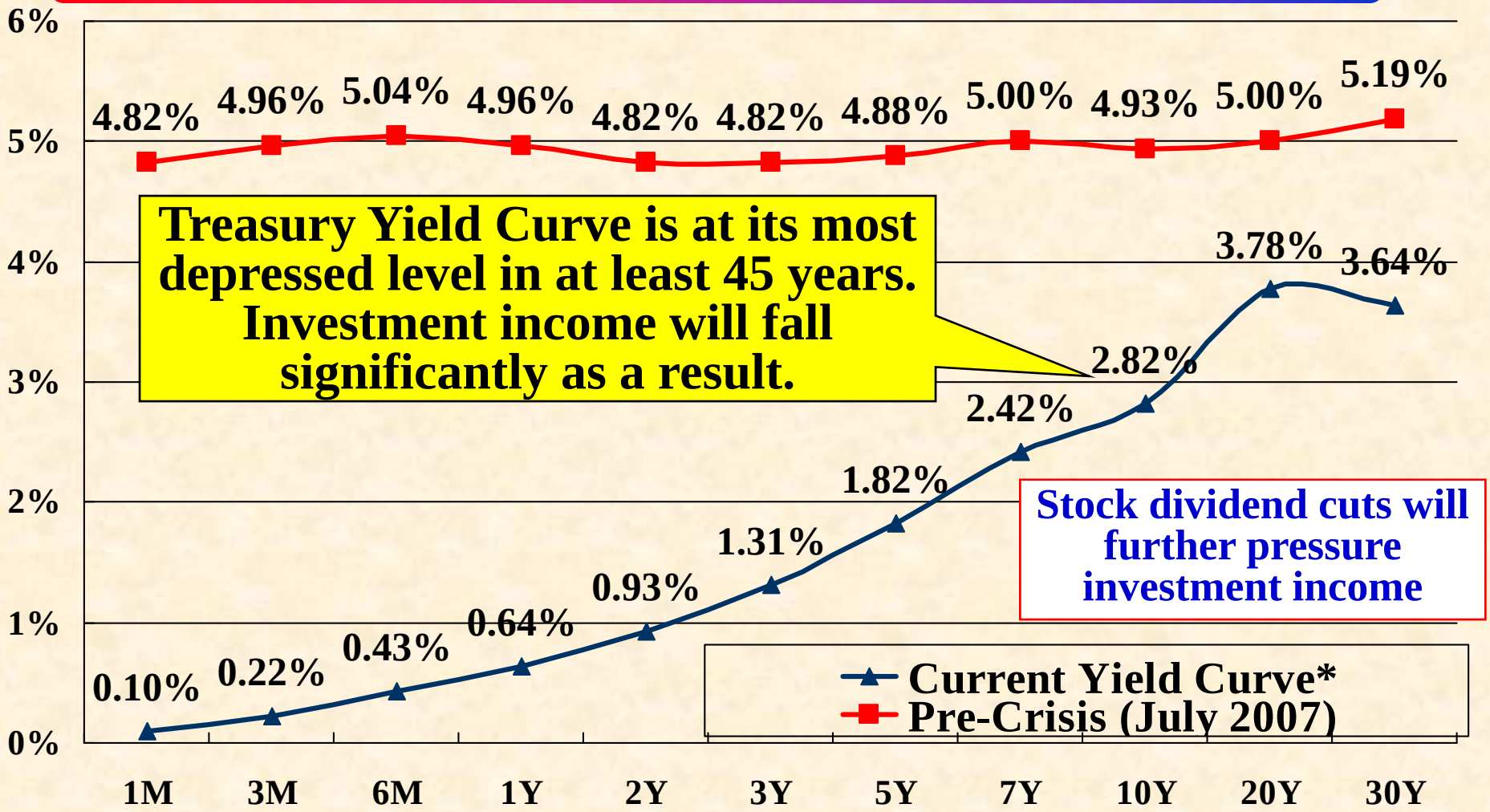
*Through May 1, 2009.

Treasury Bond Yields Have Generally Been Falling



Sources: US Bureau of Labor Statistics (history); Blue Chip Economic Indicators, April 2009 issue (forecasts)

*Treasury Yield Curves: Pre-Crisis vs. Current**



Treasury Yield Curve is at its most depressed level in at least 45 years. Investment income will fall significantly as a result.

Stock dividend cuts will further pressure investment income

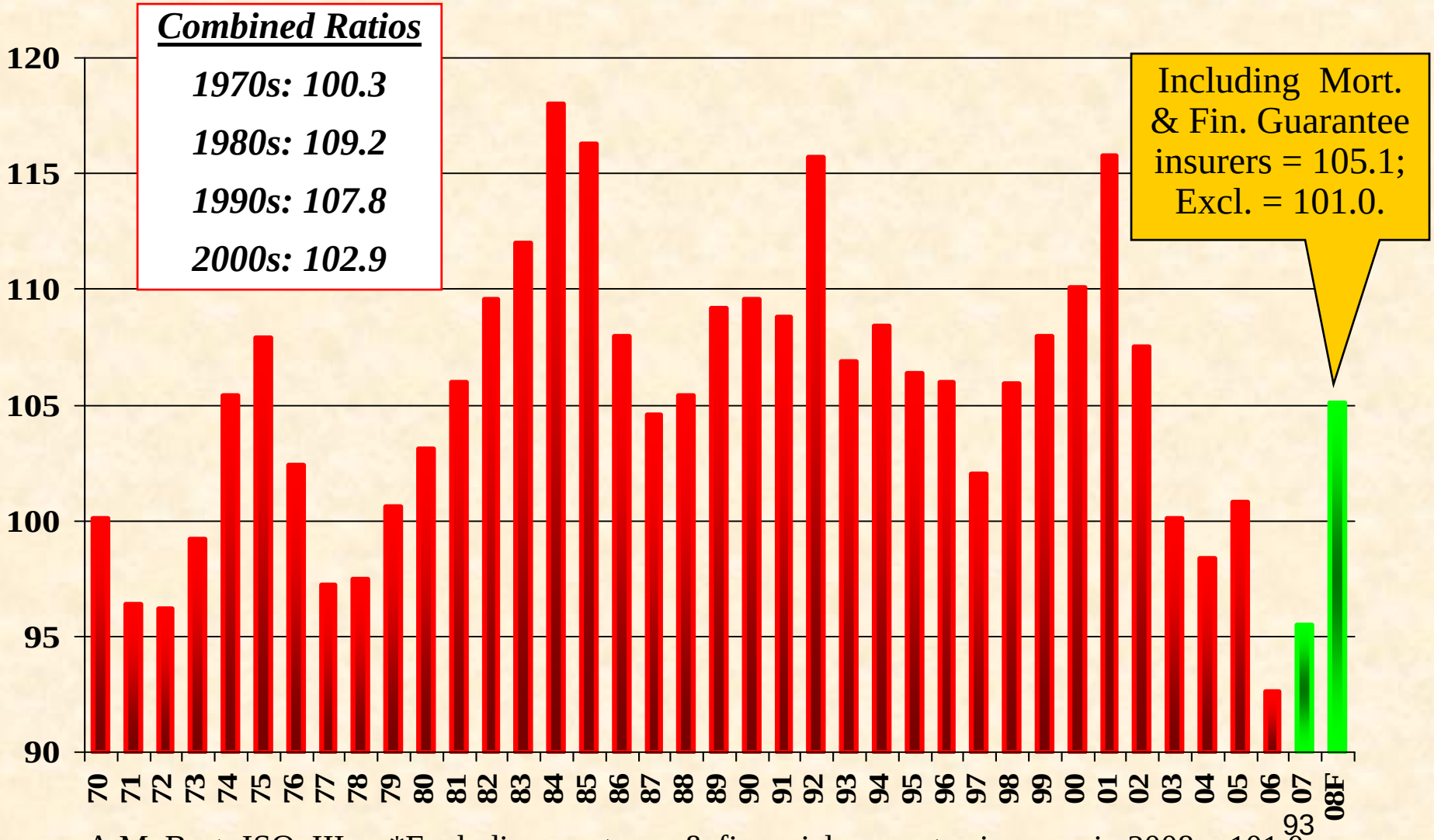
*March 2009.

Sources: Federal Reserve; Insurance Information Institute.

Underwriting Trends

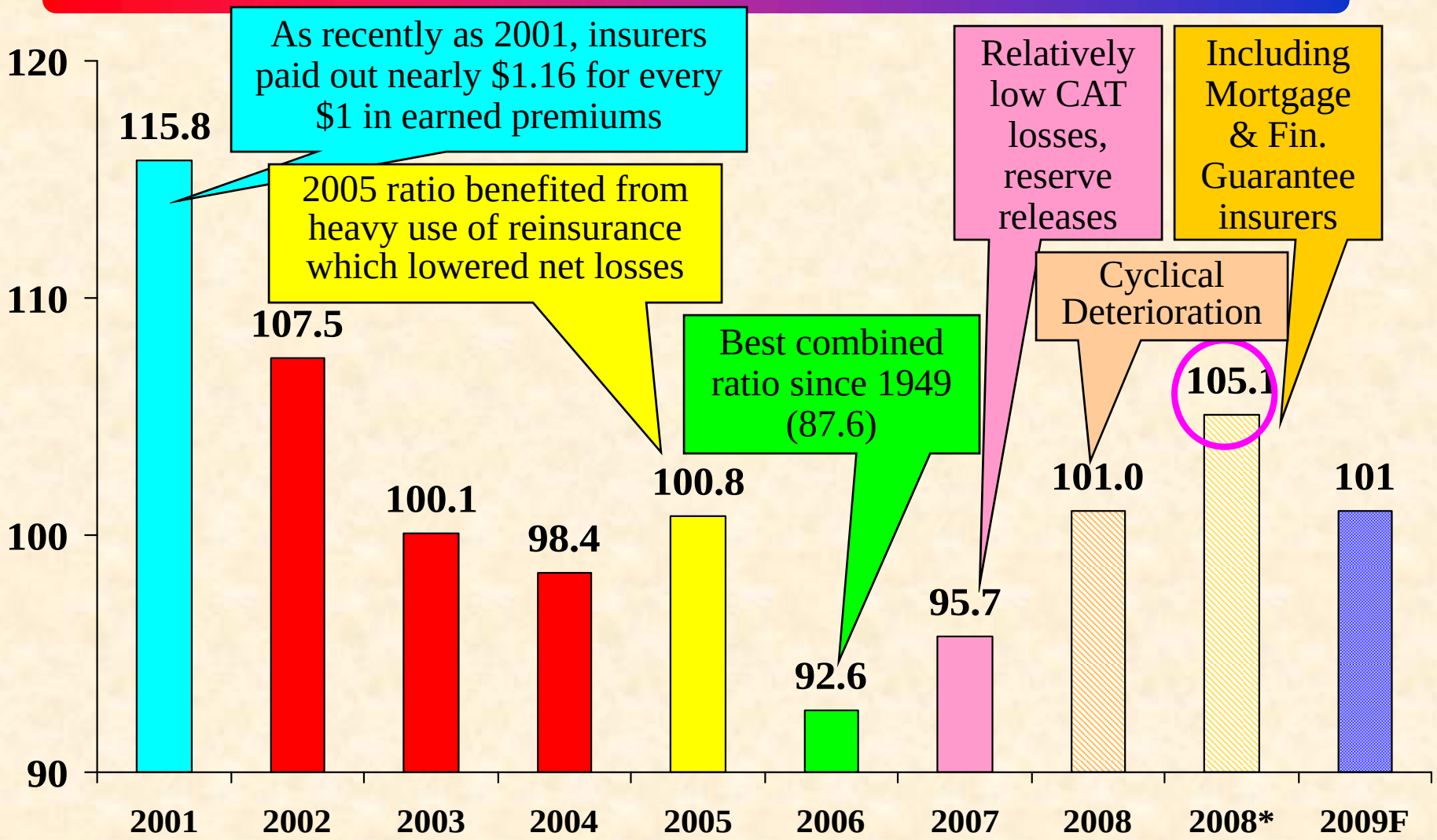
Financial Crisis Does *Not* Directly Impact Underwriting Performance: Cycle, Catastrophes Were 2008's Drivers

P/C Insurance Combined Ratio, 1970-2008F*



Sources: A.M. Best; ISO, III *Excluding mortgage & financial guarantee insurers in 2008 = 101.0.

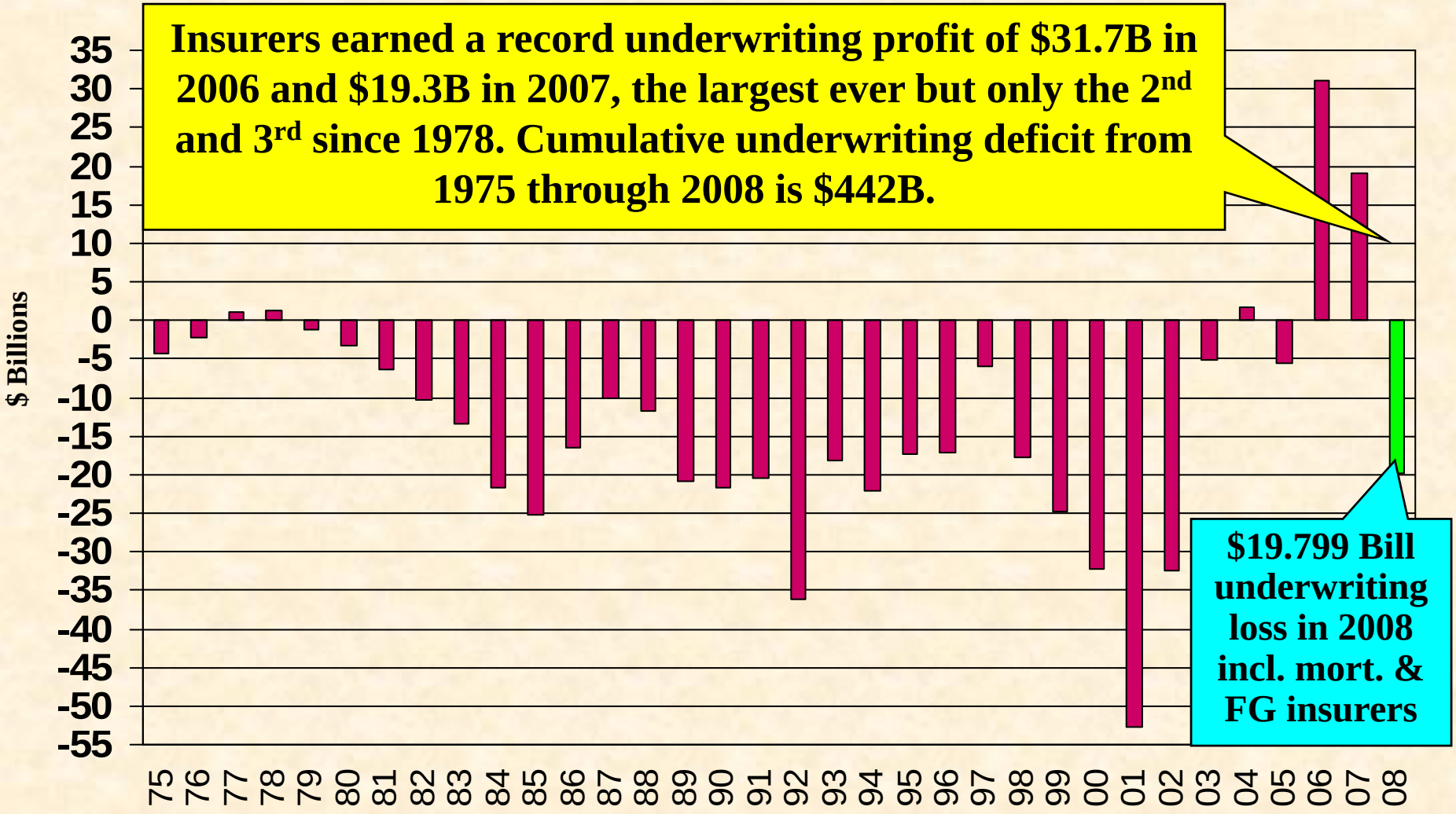
P/C Insurance Industry Combined Ratio, 2001-2009E



*Includes Mortgage & Financial Guarantee insurers.

Sources: A.M. Best.

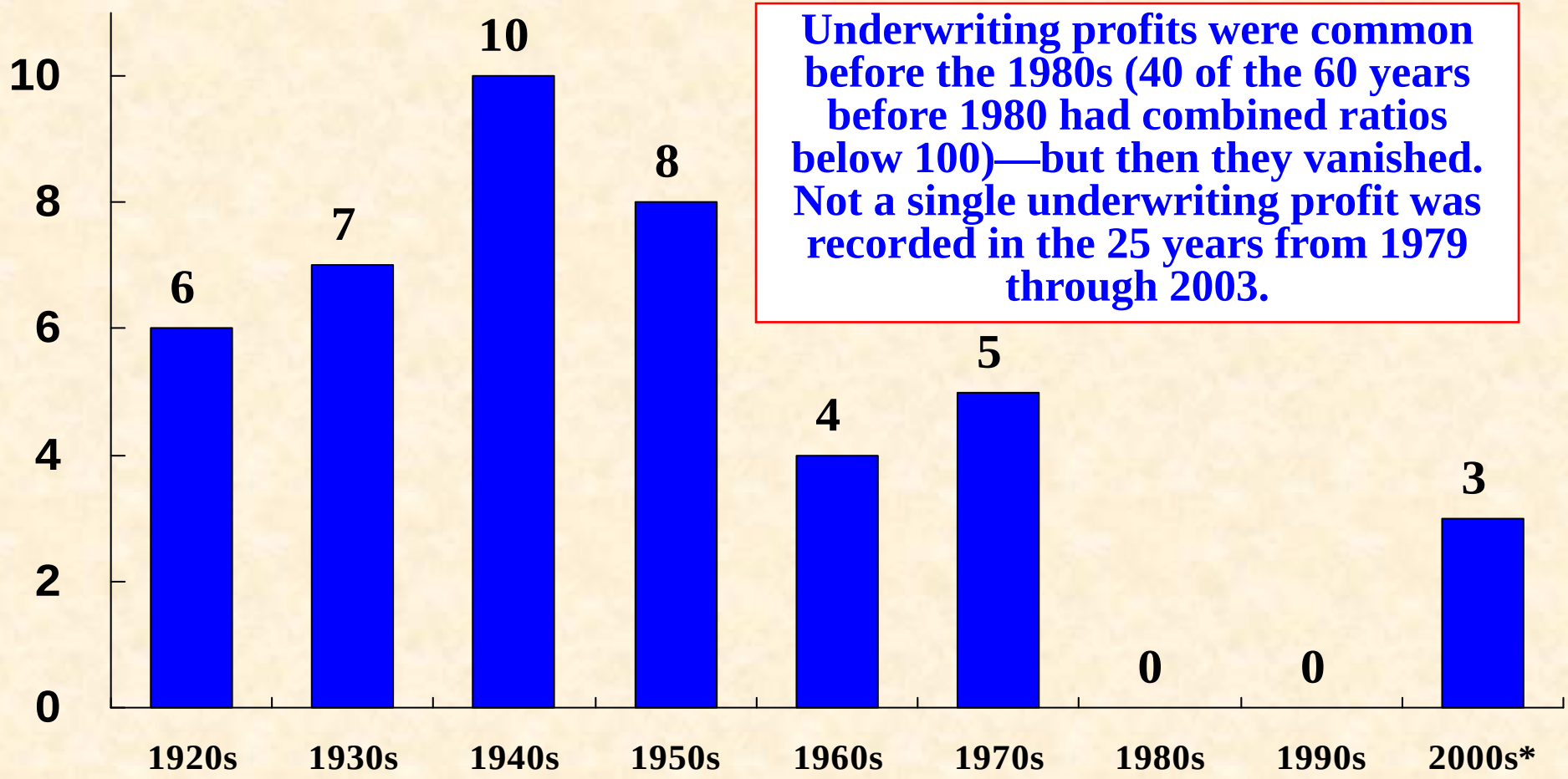
*Underwriting Gain (Loss) 1975-2008**



Source: A.M. Best, ISO; Insurance Information Institute * Includes mortgage & finl. guarantee insurers

Number of Years With Underwriting Profits by Decade, 1920s –2000s

Number of Years with Underwriting Profits



Underwriting profits were common before the 1980s (40 of the 60 years before 1980 had combined ratios below 100)—but then they vanished. Not a single underwriting profit was recorded in the 25 years from 1979 through 2003.

Note: Data for 1920 – 1934 based on stock companies only.

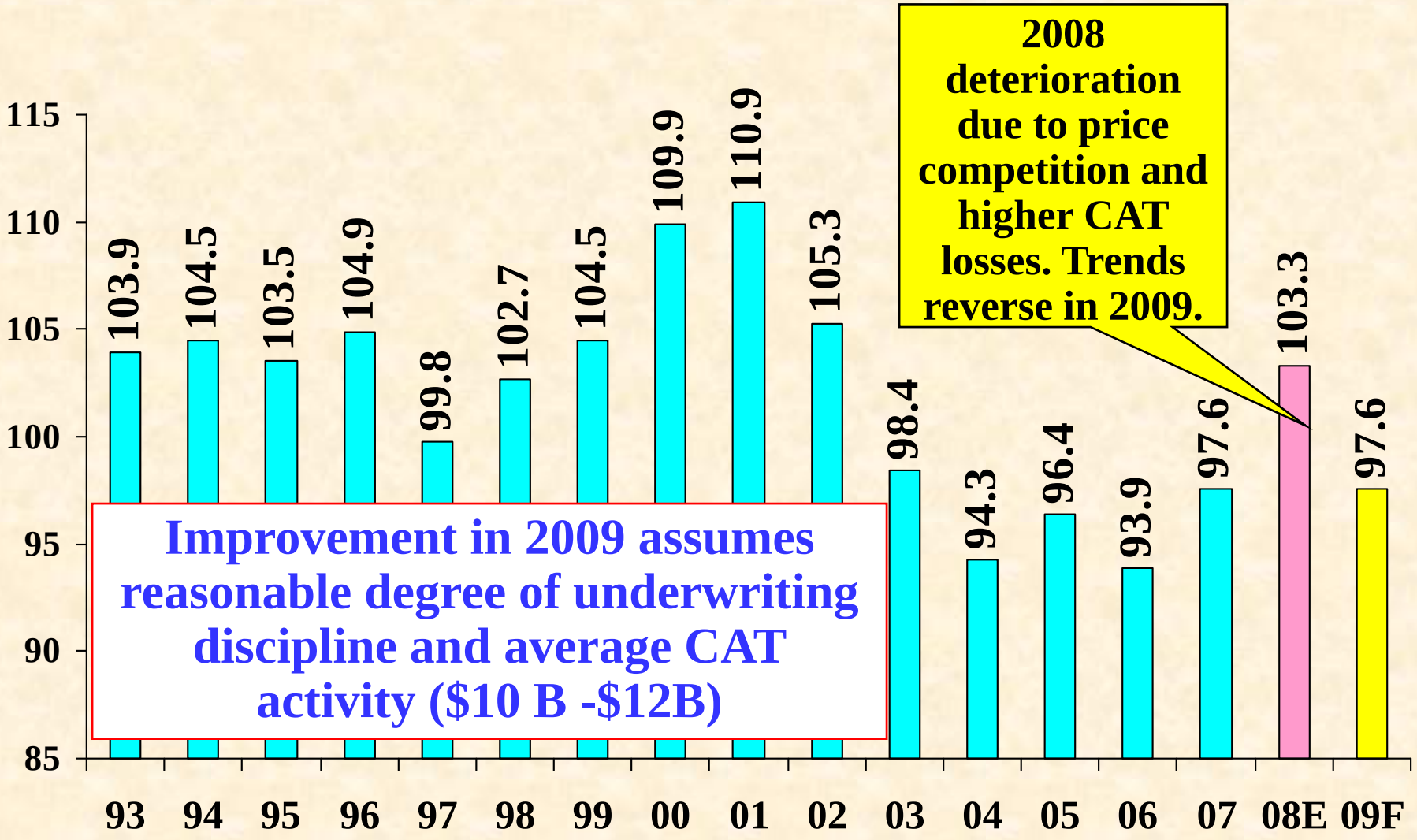
Sources: Insurance Information Institute research from A.M. Best Data.

***2000 through 2008.**

Personal Lines

Auto (~75% of Market)
Home (~25%)

Personal Lines Combined Ratio, 1993-2009F

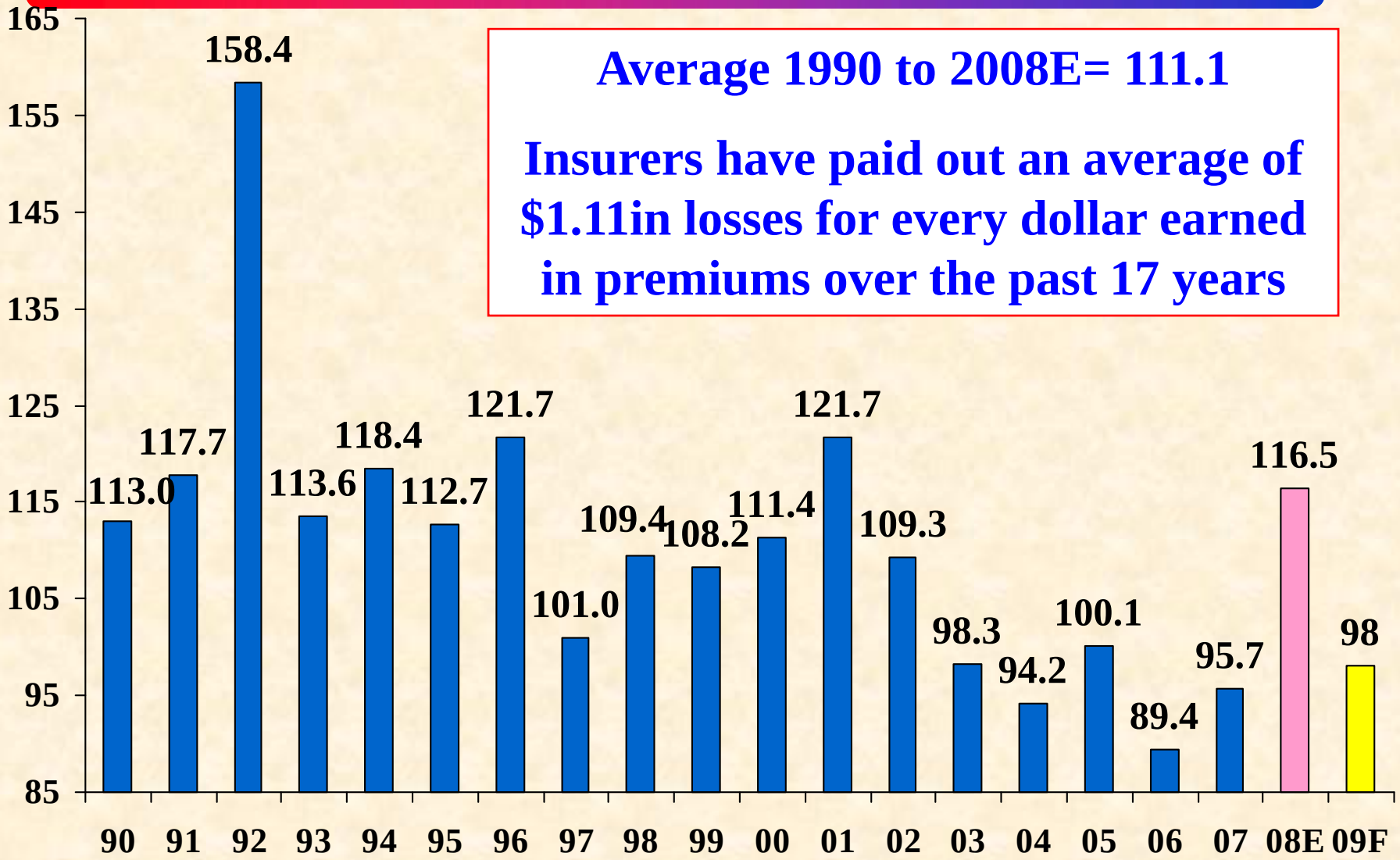


Source: A.M. Best (historical and forecast).

Homeowners Insurance Combined Ratio

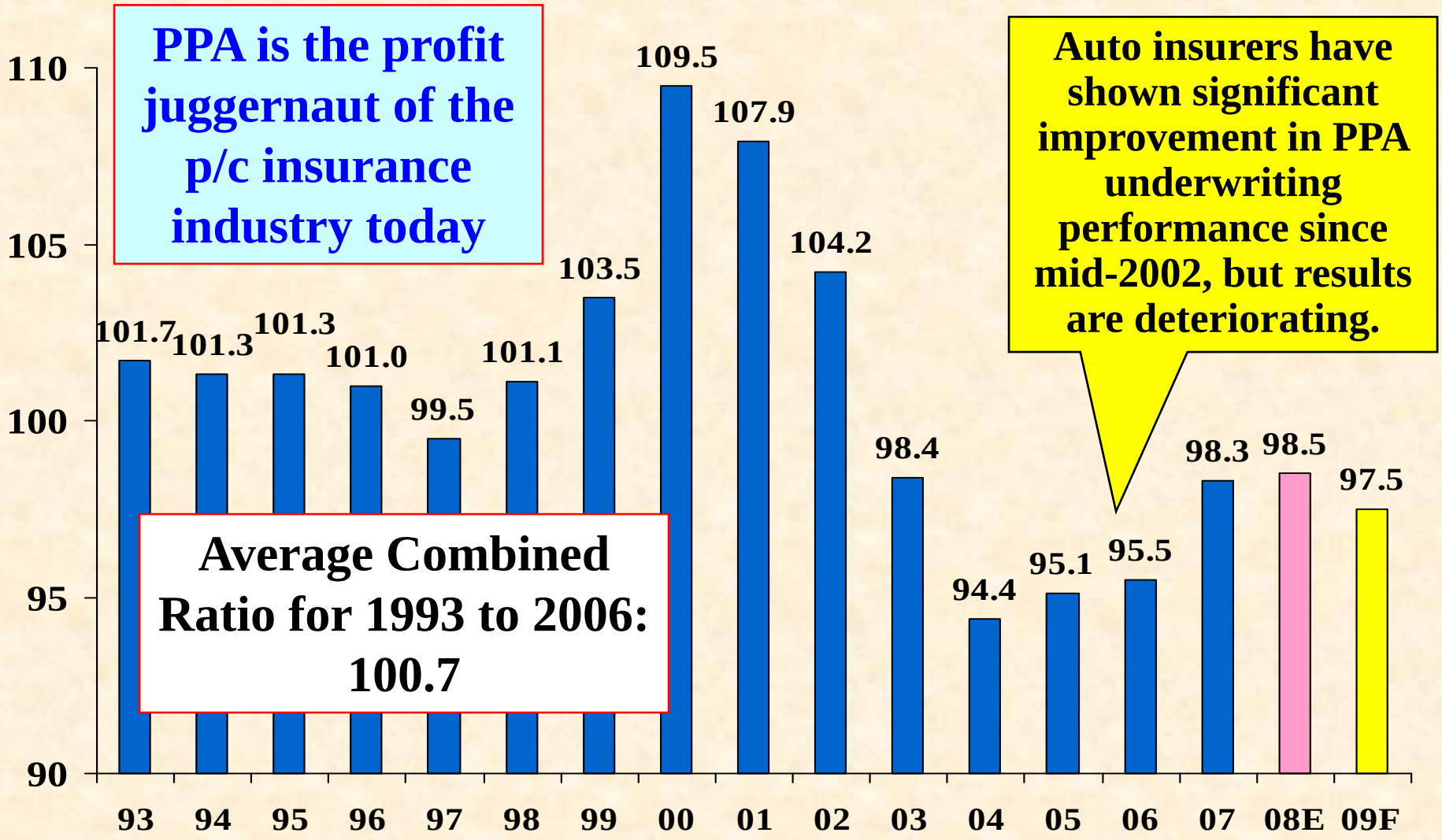
Average 1990 to 2008E= 111.1

Insurers have paid out an average of $1.11in losses for every dollar earned in premiums over the past 17 years



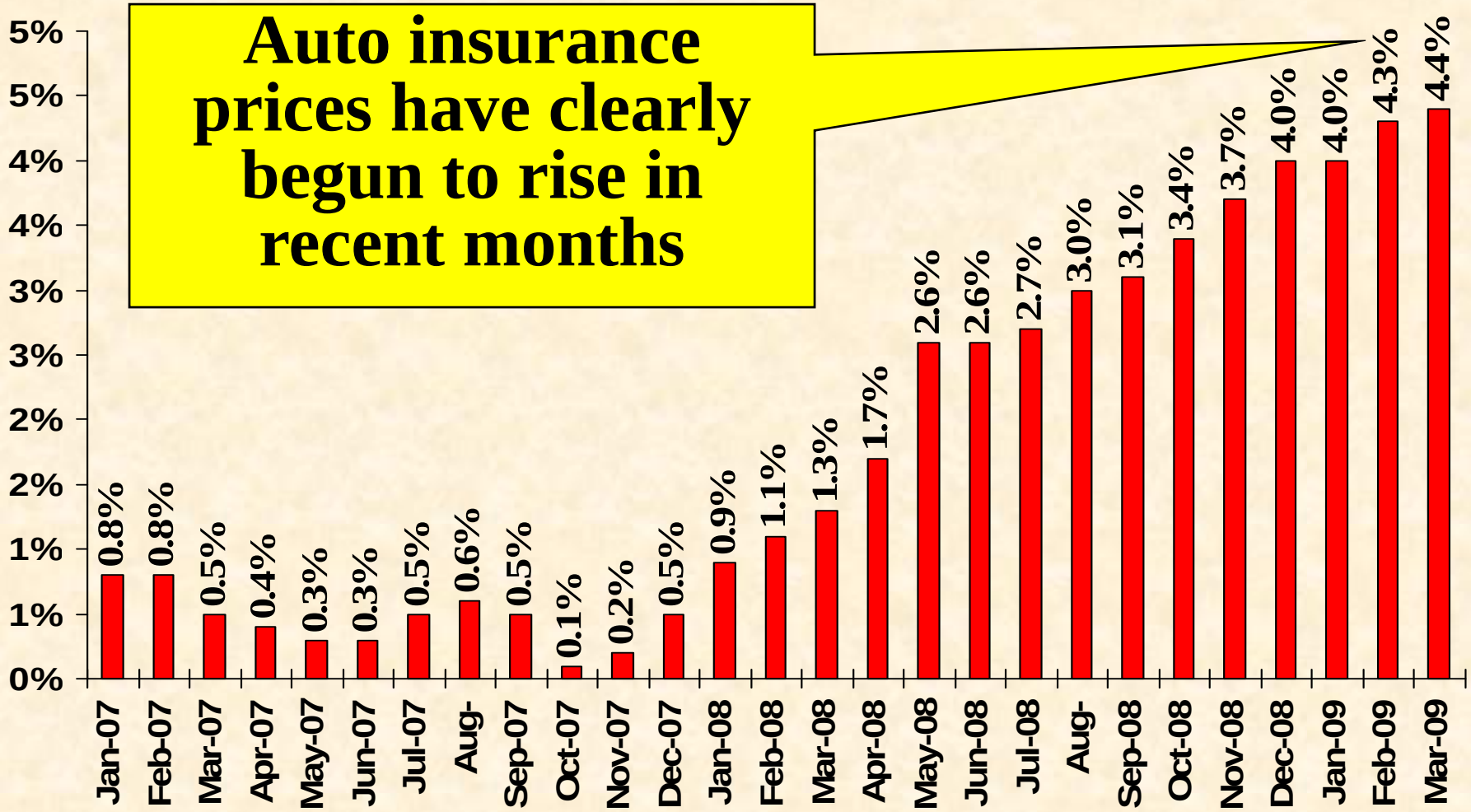
Sources: A.M. Best (historical and forecasts)

Private Passenger Auto (PPA) Combined Ratio



Sources: A.M. Best (historical and forecasts)

*Monthly Change in Auto Insurance Prices**



*Percentage change from same month in prior year.

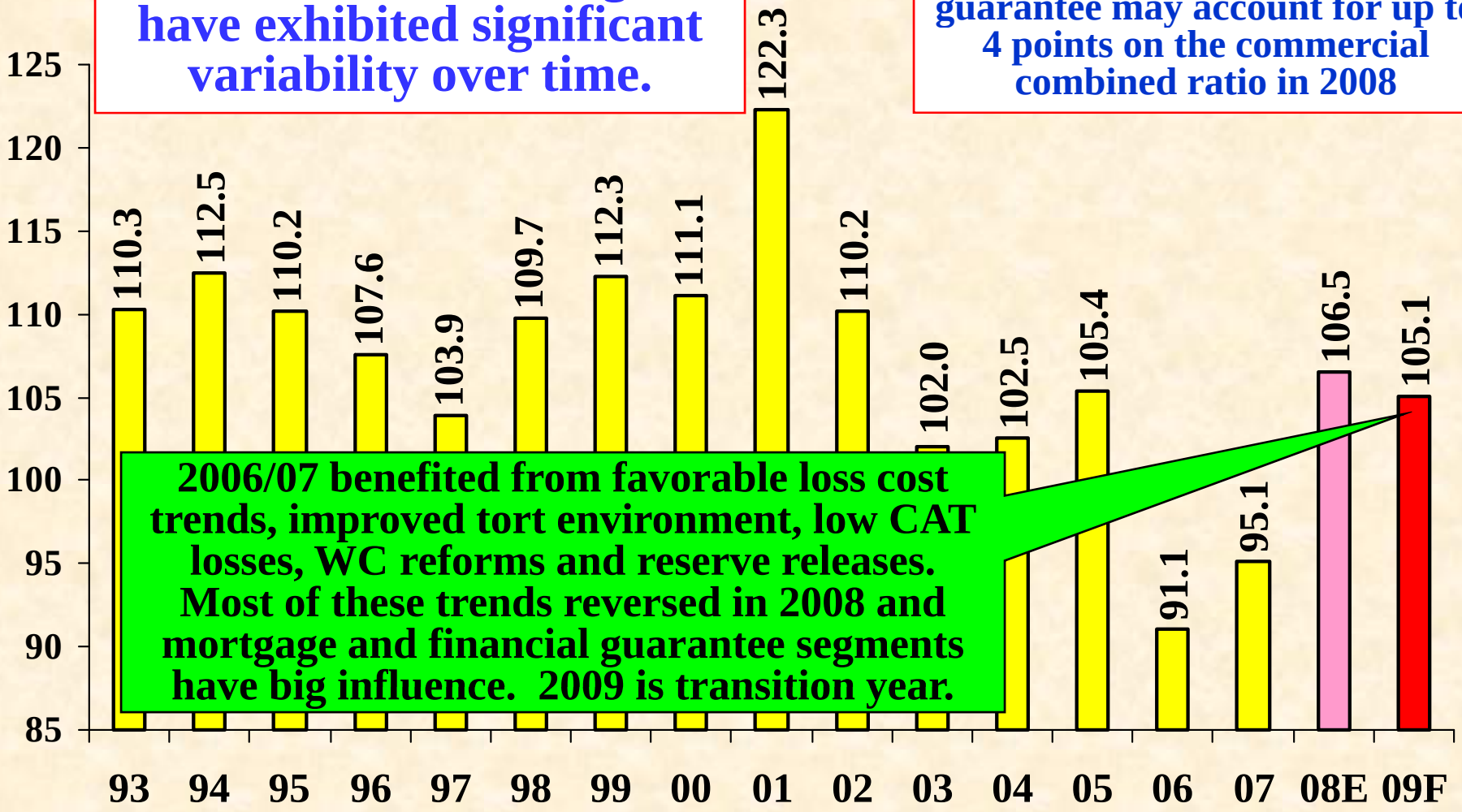
Source: US Bureau of Labor Statistics

Commercial Lines

Commercial Lines Combined Ratio, 1993-2009F

Commercial coverages have exhibited significant variability over time.

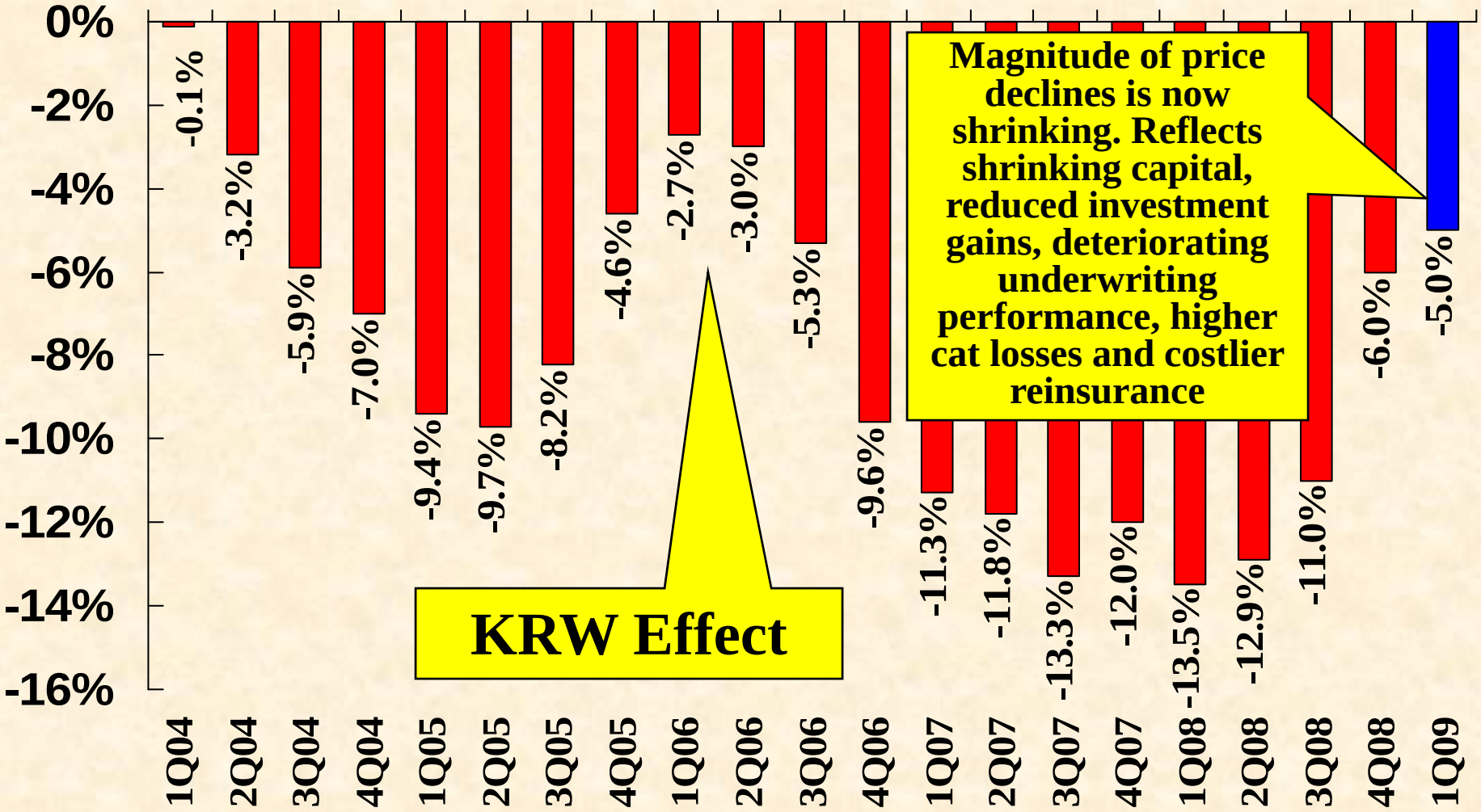
Mortgage and financial guarantee may account for up to 4 points on the commercial combined ratio in 2008



2006/07 benefited from favorable loss cost trends, improved tort environment, low CAT losses, WC reforms and reserve releases. Most of these trends reversed in 2008 and mortgage and financial guarantee segments have big influence. 2009 is transition year.

Sources: A.M. Best (historical and forecasts)

Average Commercial Rate Change, All Lines, (1Q:2004 – 1Q:2009)



Source: Council of Insurance Agents & Brokers; Insurance Information Institute

Catastrophe Losses

Impacting Underwriting Results and the Bottom Line

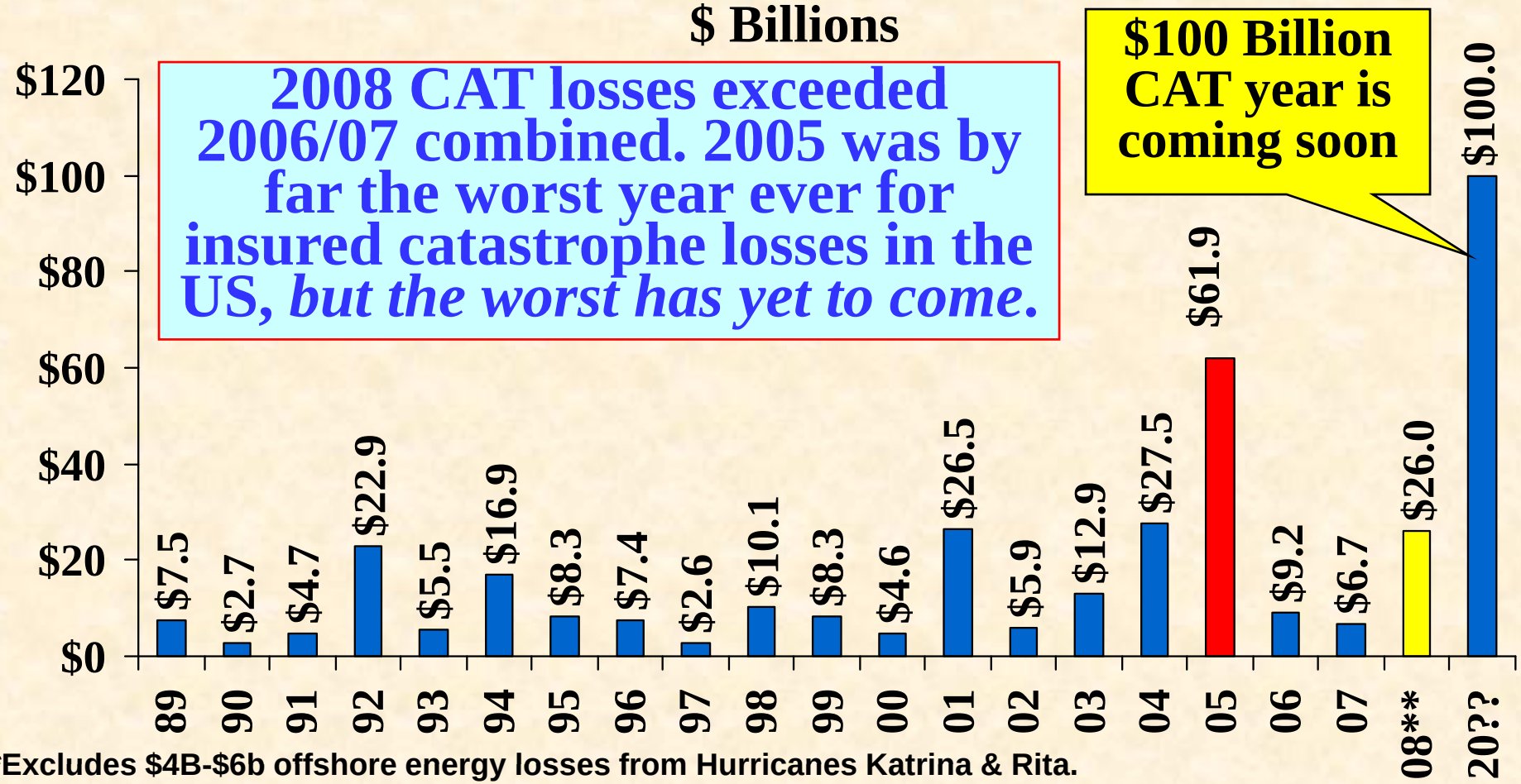
Top 10 Changes in the Financing of Catastrophic Loss

1. **Capital Has Become Much More Scarce**
   - **Though still adequate, existing US p/c capital base shrank by an estimated 16% as of year-end 2008 from Q3:07 peak; Global (re)insurance impacted as well as recent deal with Buffett deal with Swiss Re indicates.**
   - **Speed with which any given amount of capital can be raised has slowed**
2. **Capital Has Become More Expensive**
   - **Scarcity and volatility have driven cost of capital higher**
   - **More competition on the open market for the limited amount of capital available**
3. **Investment Earnings Can Offset Only a Smaller Share of Catastrophe Losses**
   - **Low interest rates, poor equity market performance, write downs eat into returns**
4. **Alternative Sources of Capital Have Dried-Up**
   - **E.g., hedge fund, private equity money is far less available**
5. **Catastrophe Bonds Cannot Be Assumed to Be Uncorrelated With Tradition Financial Market Risk**
   - **Example of Willow Re (failed to fully meet Feb. 2 interest payment due to Lehman's failure which caused a total return swap to become worthless, exposing investor principal and interest to market risk); A.M. Best concerned about 3 other Lehman-backed bonds from Ajax Re , Newton Re & Carillon Re**
   - **Will result in changes in how such instruments are funded and investments held**

Top 10 Changes in the Financing of Catastrophic Loss

6. **State Run Residual Markets Are More Vulnerable Due to Shaky Financing Arrangements**
   - **FL's situation is more precarious than ever & growing; Threatens state's finances**
   - **States using assessment mechanism as zero cost lines of credit (e.g., Texas) creating a high opportunity cost for insurers without fixing state's fiscal exposure**
7. **Economics of Start-Ups and Take-Out Companies in CAT Zones Becomes Less Compelling Due to Higher Cost of Capital**
   - **Harder to raise cash**
   - **Tougher to meet target ROI as cost of capital rises**
8. **Financial Services Regulatory Overhaul Will Change How the Business of Insurance Is Regulated**
   - **Unclear how this will affect how cat loss is financed**
   - **Nat Cat legislation is not (currently) part of the overhaul discussion**
   - **Systemic Risk Regulator: What are p/c systemic risk points? (CAT exposure?; Guaranty Funds?)**
   - **Will be impacts on sources of capital as well (e.g., hedge funds)**
9. **Federal Government is Fiscally Constrained**
   - ➢ **Can/would federal play a bigger role in financing CAT risk? Fed backstops to be sought?**
10. **Return on Investment for Mitigation is *Greatly* Increased**
    - ➢ **Investments in mitigation provide a guaranteed high rate of return: up to 500%**
    - ➢ **Mitigation preserves and conserves scarce private capital and government resources**

U.S. Insured Catastrophe Losses*



*Excludes $4B-$6b offshore energy losses from Hurricanes Katrina & Rita.

**Based on PCS data through Dec. 31. PCS $2.1B loss of for Gustav. $10.655B for Ike of 12/05/08.

Note: 2001 figure includes $20.3B for 9/11 losses reported through 12/31/01. Includes only business and personal property claims, business interruption and auto claims. Non-prop/BI losses = $12.2B.

Source: Property Claims Service/ISO; Insurance Information Institute

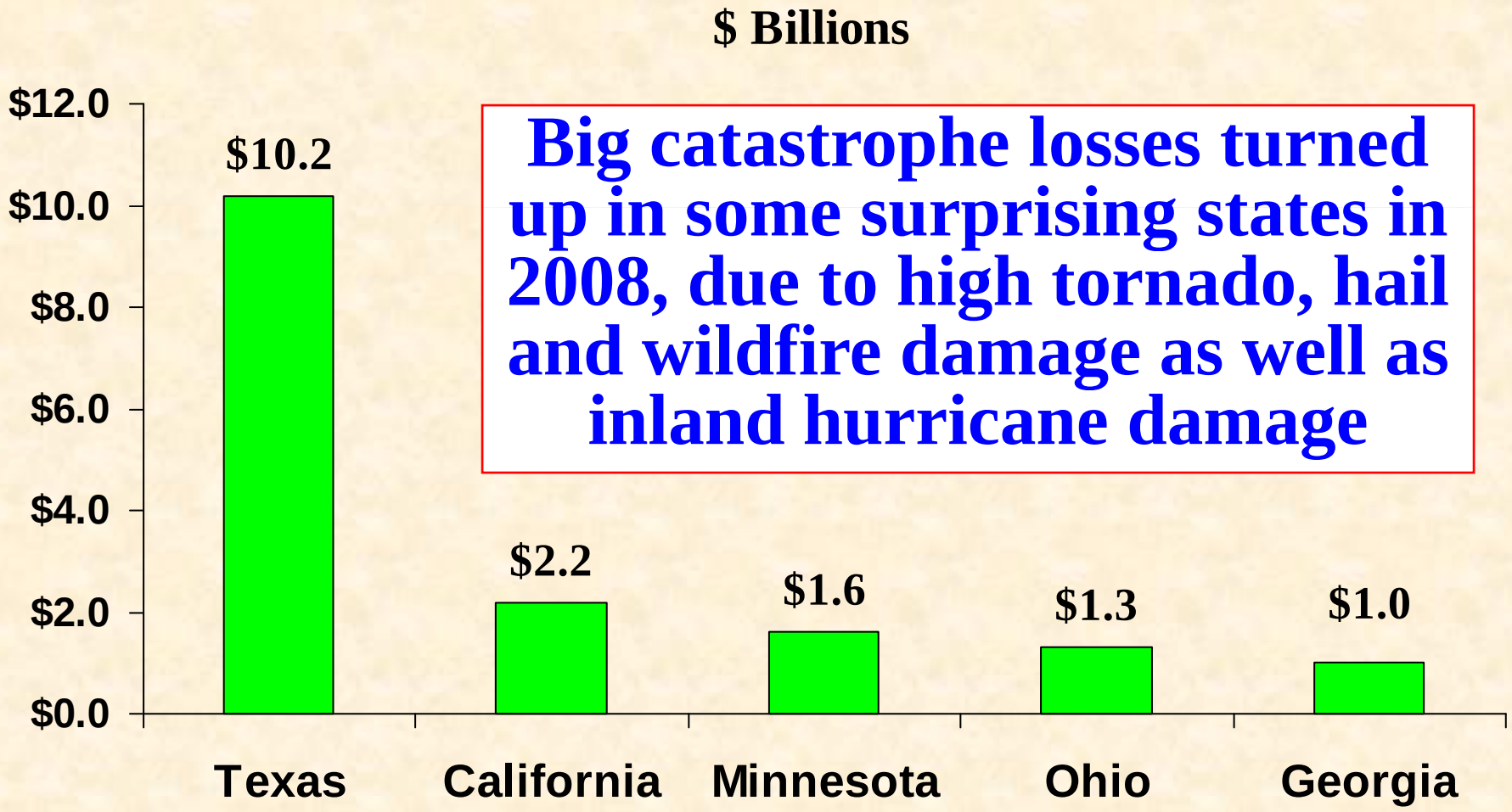
*Number of PCS Catastrophe Events, 1998-2008**

The number of catastrophe events reached a 10-year high in 2008

***PCS defines a catastrophe as an even that caused at least $25 million in insured property damage and affects and significant number of policyholders and insurers.**

Source: PCS; Insurance Information Institute

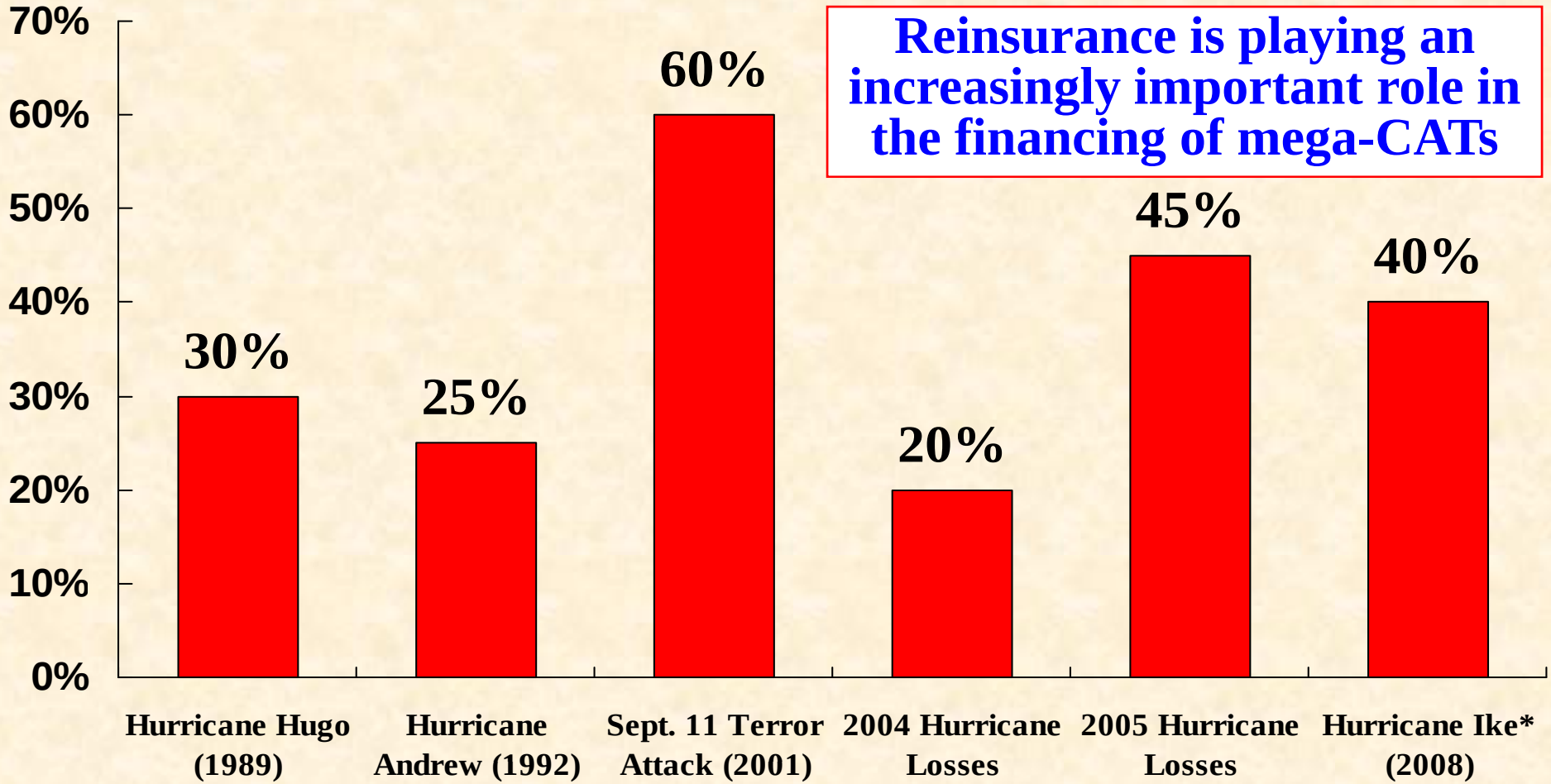
States With Highest Insured Catastrophe Losses in 2008



Big catastrophe losses turned up in some surprising states in 2008, due to high tornado, hail and wildfire damage as well as inland hurricane damage

Source: PCS; Insurance Information Institute.

*Share of Losses Paid by Reinsurers, by Disaster**

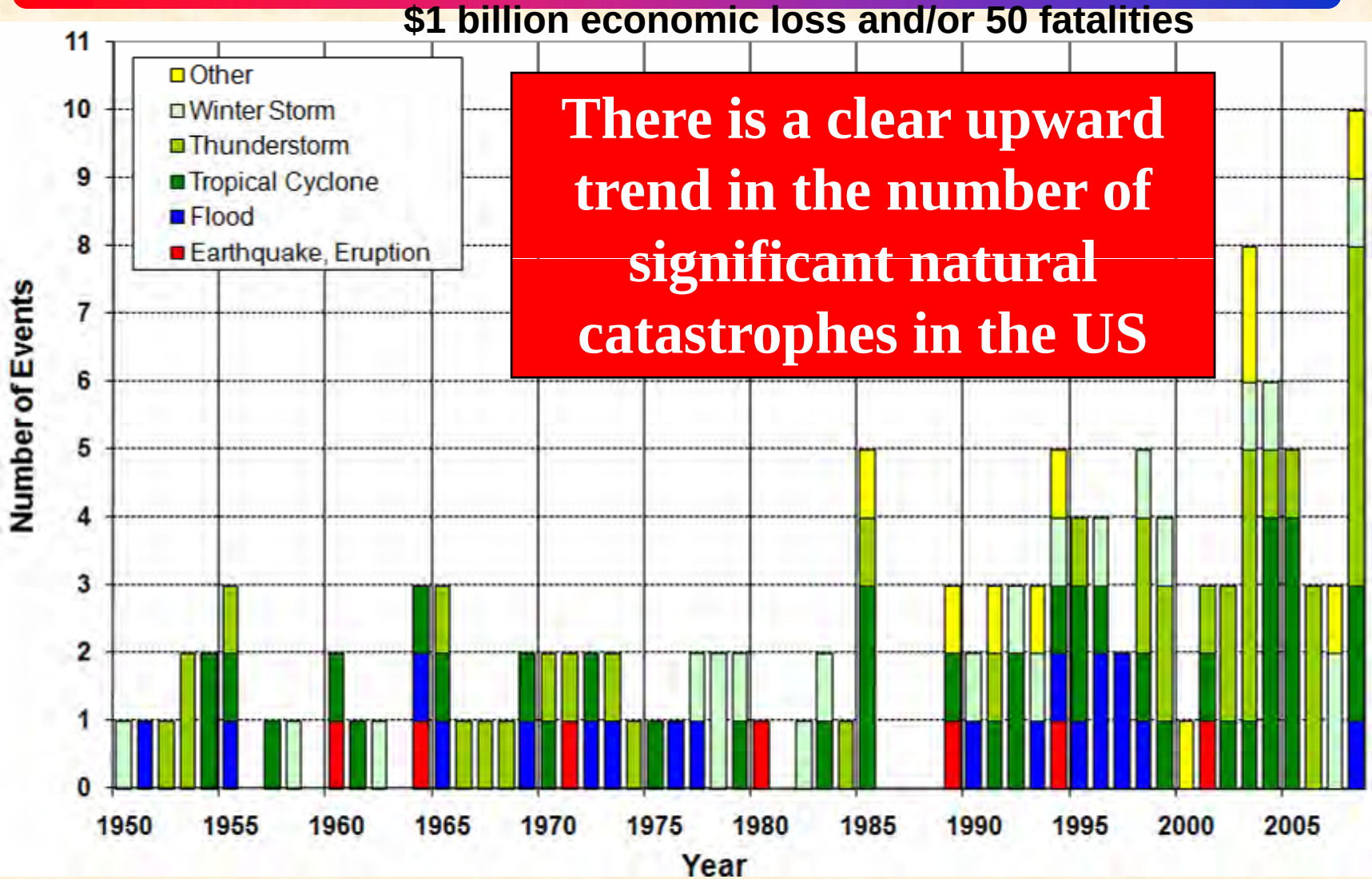


Reinsurance is playing an increasingly important role in the financing of mega-CATs

*Excludes losses paid by the Florida Hurricane Catastrophe Fund, a FL-only windstorm reinsurer, which was established in 1994 *after* Hurricane Andrew. FHCF payments to insurers are estimated at $3.85 billion for 2004 and $4.5 billion for 2005. Ike share is an estimate as of 2/9/09.

Sources: Wharton Risk Center, Disaster Insurance Project; Insurance Information Institute.

Number of U.S. Significant Natural Catastrophes,1950 – 2008



There is a clear upward trend in the number of significant natural catastrophes in the US

Sources: Munich Re NatCat*SERVICE* **$1 billion economic loss and/or 50 fatalities.*

Top 12 Most Costly Disasters in US History, (Insured Losses, $2007)

*PCS estimate as of 12/15/08.

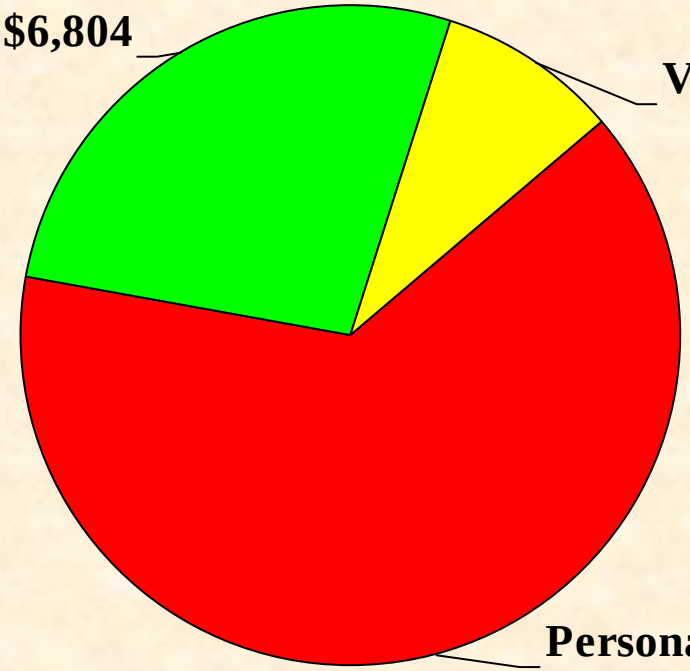
Sources: ISO/PCS; AIR Worldwide, RMS, Eqecat; Insurance Information Institute inflation adjustments.

2008 Insured Catastrophe Loss Distribution by Category

2008 CAT FACTS

- **The $25.2 billion in insured losses was the 4th highest ever, behind only, 2005, 2004 and 2001**
- **There were 37 designated catastrophes in 2008, the highest since 1998 (also 37)**
- **Commercial losses accounted for 27% of insured losses but just 9% of claims**

$ Millions



*Includes homeowers, condominium and rental policies.
**Includes commercial and private passenger vehicles
Source: PCS; Insurance Information Institute research.

2008 Insured Catastrophe Loss Distribution by Number of Claims

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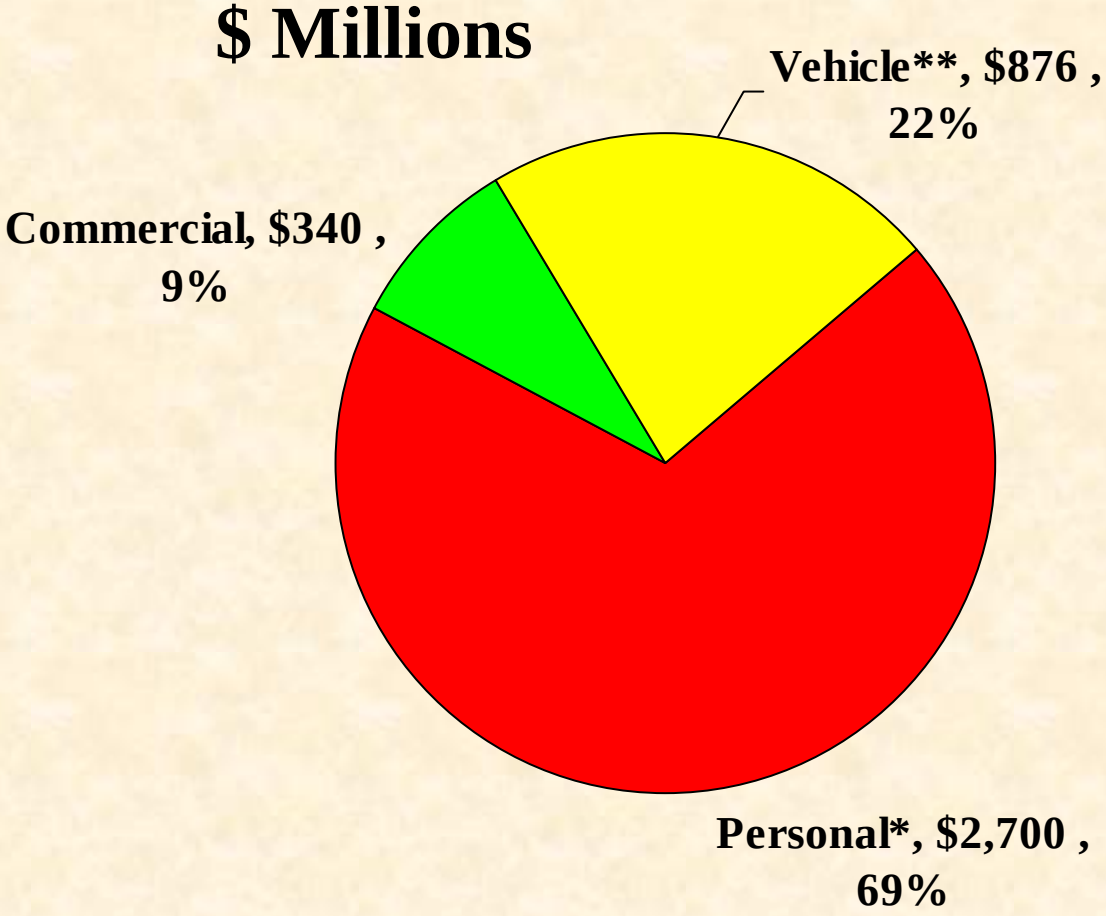
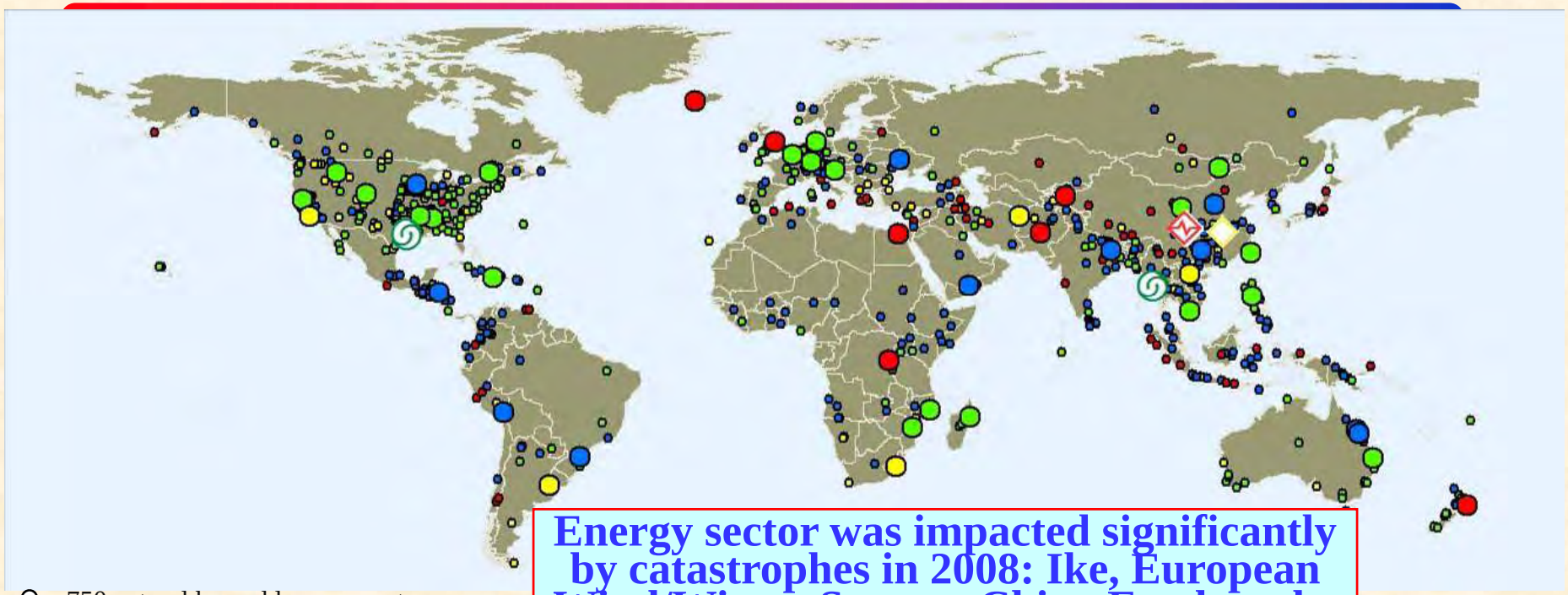


*Includes homeowers, condominium and rental policies.
**Includes commercial and private passenger vehicles
Source: PCS; Insurance Information Institute research.

Natural Catastrophes in 2008 by Type and Location



Energy sector was impacted significantly by catastrophes in 2008: Ike, European Wind/Winter Storms, China Earthquake

750 natural hazard losses events

Significant loss events

Great natural catastrophes

Hurricane Ike (Sept. 6-14, 2008) Caribbean, USA
Cyclone Nargis (May 2-5, 2008) Myanmar

Earthquake (May 12, 2008) China

Winter damage (Jan 10–Feb 13, 2008) China

Geophysical (earthquake, tsunami, volcanic)

Meteorological (storm)

Hydrological (flood, mass movement)

Climatological (extreme temperature, drought, wildfire)

Source: 2009 Münchener Rückversicherungs-Gesellschaft, Geo Risk Research, NatCatSERVICE

As of January 2009

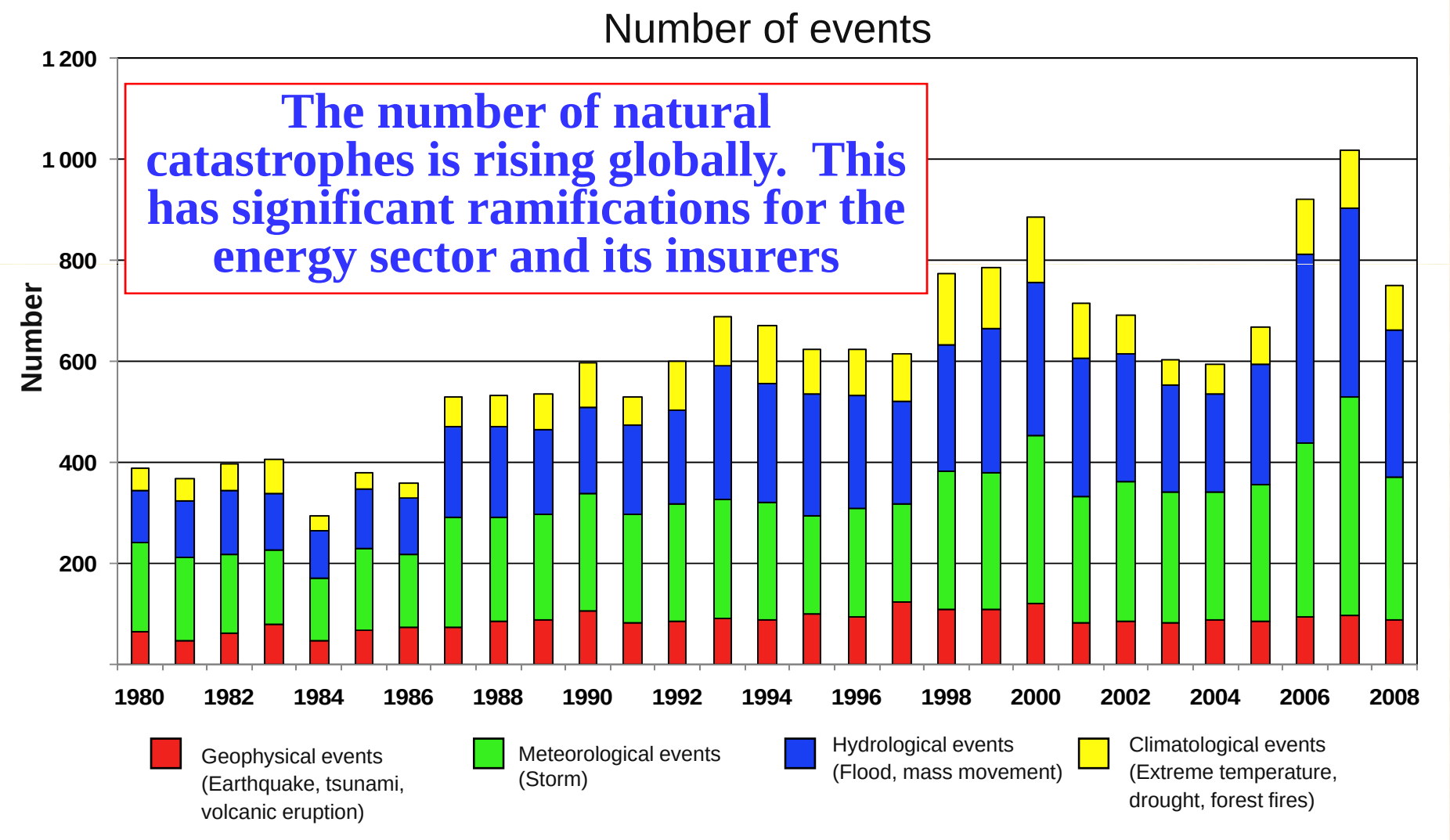
Some of the Costliest Natural Catastrophes in 2008 Impacted the Energy Business and Its Insurers Significantly

Deadliest catastrophes			
Date	**Event**	**Area**	**Deaths**
May	Cyclone Nargis	Myanmar	84,500
May	Earthquake	China	70,000
January	Cold wave	Afghanistan, Kyrgyzstan, Tajikistan	1,000
August/September	Floods	India, Nepal, Bangladesh	635
Costliest catastrophes (overall losses)			**US$m**
★ May	Earthquake	China	85,000
★ September	Hurricane Ike	Caribbean, USA	30,000
★ January/February	Winter damage	China	21,100
★ August/September	Hurricane Gustav	Caribbean, USA	10,000
Costliest catastrophes (insured losses)			**US$m**
★ September	Hurricane Ike	Caribbean, USA	15,000
★ August/September	Hurricane Gustav	Caribbean, USA	5,000
★ January/February	Winter damage	China	1,600
★ March	Winter storm Emma	Europe	1,500

Source: 2009 Münchener Rückversicherungs-Gesellschaft, Geo Risk Research, NatCatSERVICE

As of January 2009

Number of Natural Catastrophes Worldwide, 1980 - 2008

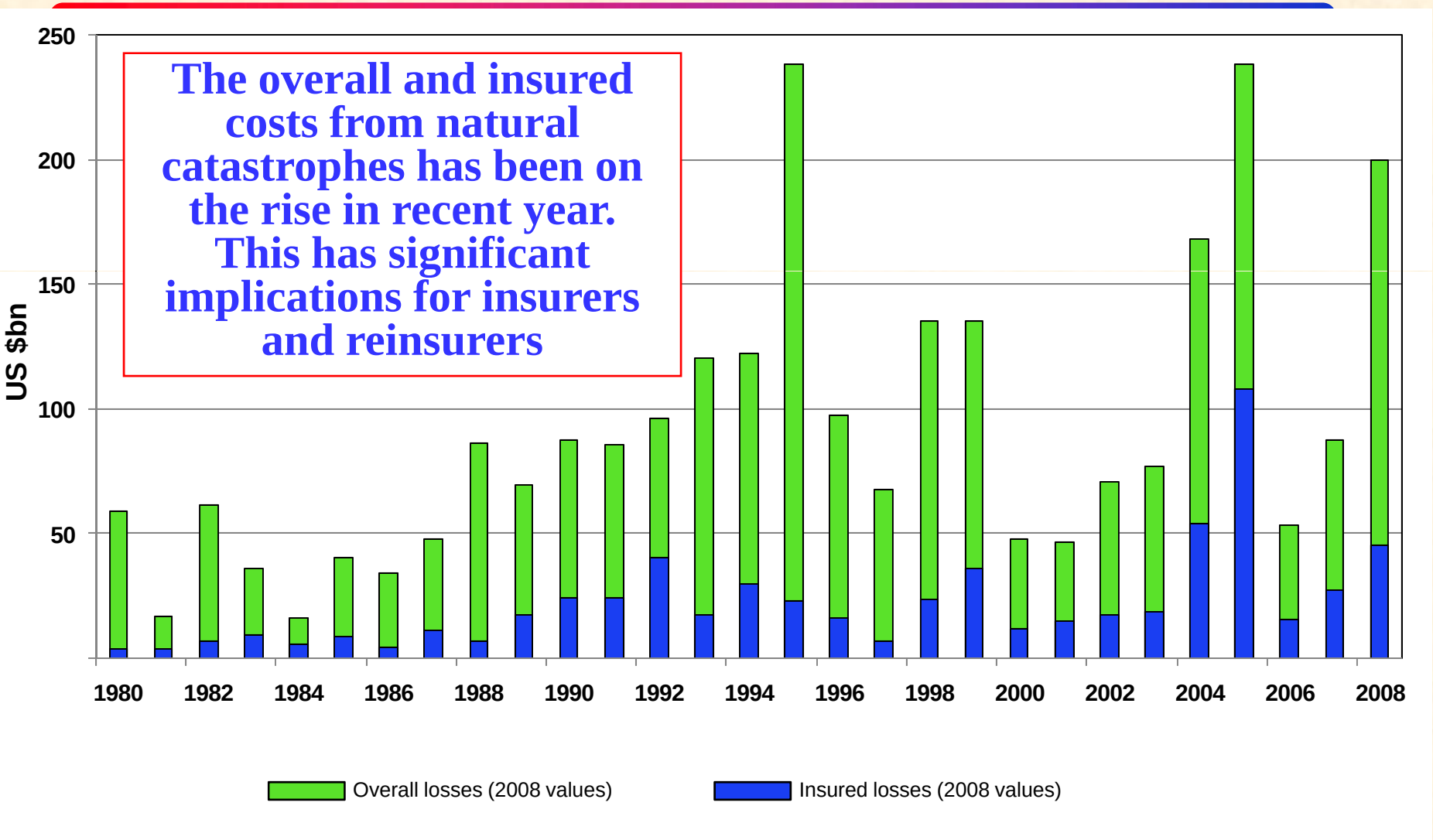


The number of natural catastrophes is rising globally. This has significant ramifications for the energy sector and its insurers

Source: 2009 Münchener Rückversicherungs-Gesellschaft, Geo Risk Research, NatCatSERVICE

As of January 2009

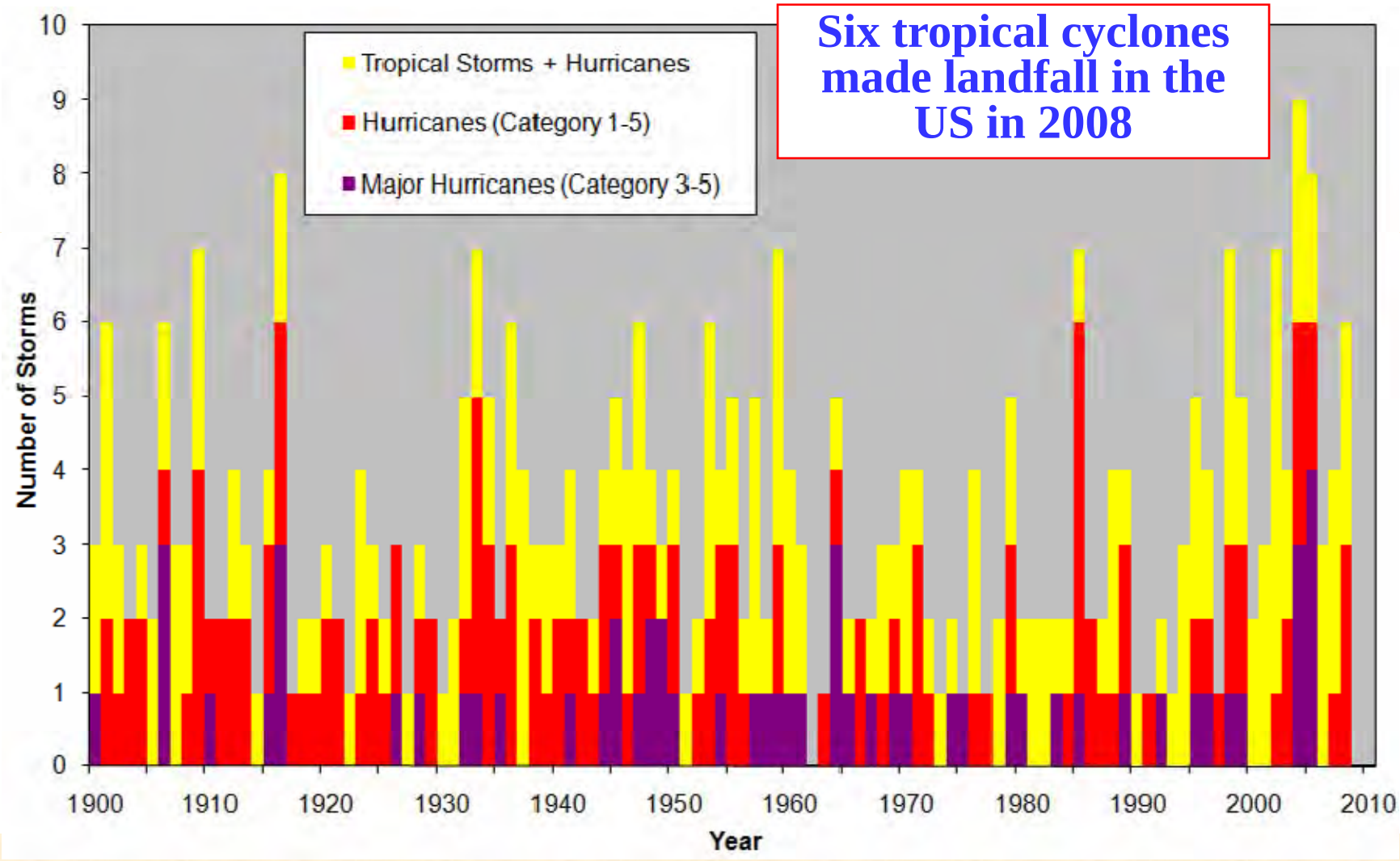
Overall and Insured Losses from Natural Catastrophes Worldwide, 1980 - 2008



Source: 2009 Münchener Rückversicherungs-Gesellschaft, Geo Risk Research, NatCatSERVICE

As of January 2009

Rising Number of U.S. Landfalling Tropical Cyclones Has Been Very Costly for Insurers



Six tropical cyclones made landfall in the US in 2008

Source: Munich Re from NOAA

Insurance Information Institute On-Line

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