## WORKERS COMPENSATION - CURRENT ISSUES -

(SESSION WC-4)

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Casualty Actuarial Society 2004 Seminar on Ratemaking New Orleans, Louisiana March 10-11, 2005

### **WC Premium Growth Leads Other Lines**

#### **Net Written Premium by Line**

Line of Business	2002	2003	2004p	Change
Personal Auto	\$ 139.6 B	\$ 151.0 B	\$ 158.0 B	4.7%
Homeowners	\$ 40.0 B	\$ 47.7 B	\$ 51.5 B	7.9%
Workers Compensation	\$ 36.5 B	\$ 41.6 B	\$ 47.4 B	14.1%
Other Liability (Incl Prod Liab)	\$ 30.9 B	\$ 38.7 B	\$ 44.1 B	13.9%
Commercial Multiple Peril	\$ 25.4 B	\$ 27.4 B	\$ 28.3 B	3.5%
Commercial Auto	\$ 24.6 B	\$ 25.4 B	\$ 25.5 B	0.3%
Fire & Allied Lines (Incl EQ)	\$ 15.4 B	\$ 17.6 B	\$ 17.9 B	1.9%
All Other Lines	\$ 66.4 B	\$ 66.0 B	\$ 62.5 B	-5.3%
Total All Lines	\$ 378.9 B	\$ 415.3 B	\$ 435.2 B	4.8%

Source: Best's Aggregates & Averages, Review/Preview

(Includes state funds for: AZ, CA, ID, LA, MD, ME, MN, OR, RI, TX, and UT) <sup>2</sup>

### **Combined Ratios Improved in 2003**

#### **Net Combined Ratios**

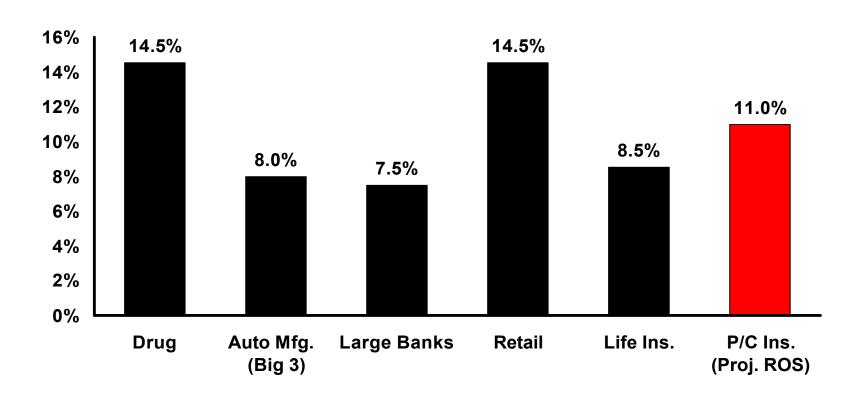
Line of Business	2002	2003	2004p
Personal Auto	104%	98%	93%
Homeowners	109%	98%	101%
Workers Compensation	112%	108%	107%
Other Liability (Incl Prod Liab)	137%	116%	111%
Commercial Multiple Peril	105%	100%	99%
Commercial Auto	103%	95%	93%
Fire & Allied Lines (Incl EQ)	89%	79%	85%
All Other	105%	95%	86%
Reinsurance Co's	126%	111%	105%
Total All Lines	107%	100%	98%

Source: Best's Aggregates & Averages, Review/Preview

(Includes state funds for: AZ, CA, ID, LA, MD, ME, MN, OR, RI, TX, and UT) <sup>3</sup>

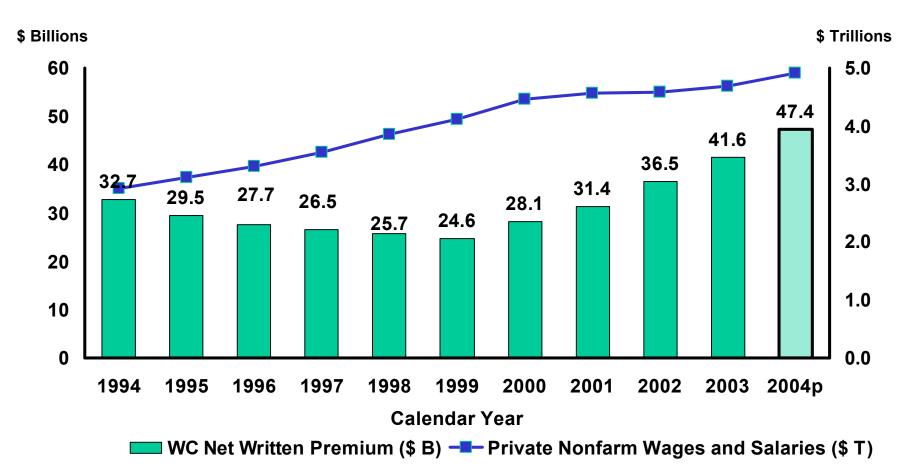
## Return on Equity for Total P&C Appears In Line With Other Industries

#### **Estimated 2004 After-Tax ROE for Public Companies**



## Workers Compensation Premium Volume Continues to Grow

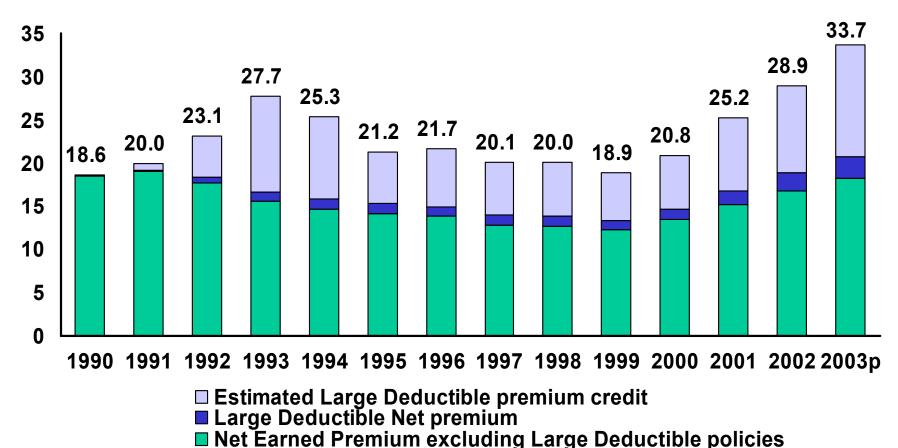
**Workers Compensation Net Written Premium** 



### **Large Deductible Growth Continues**

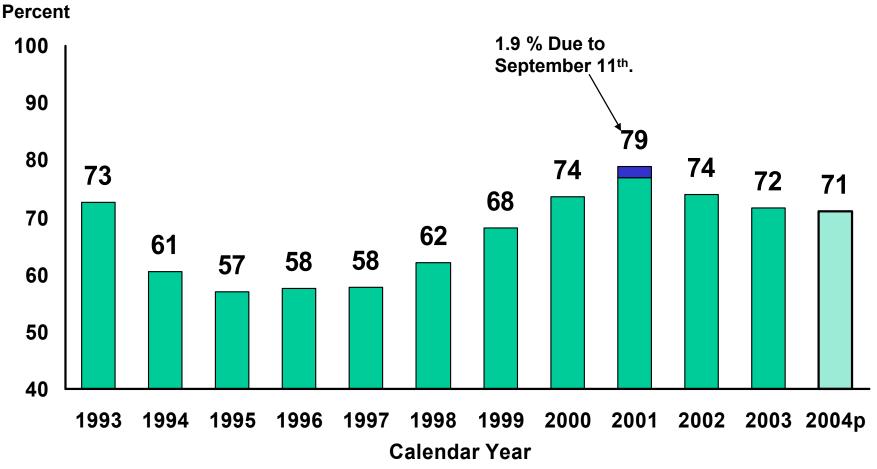
### Calendar Year WC Earned Premiums & Premium Equivalents NCCI States





### Calendar Year WC Loss Ratio Showing Slight Improvement

**Workers Compensation Net Loss Ratios** 



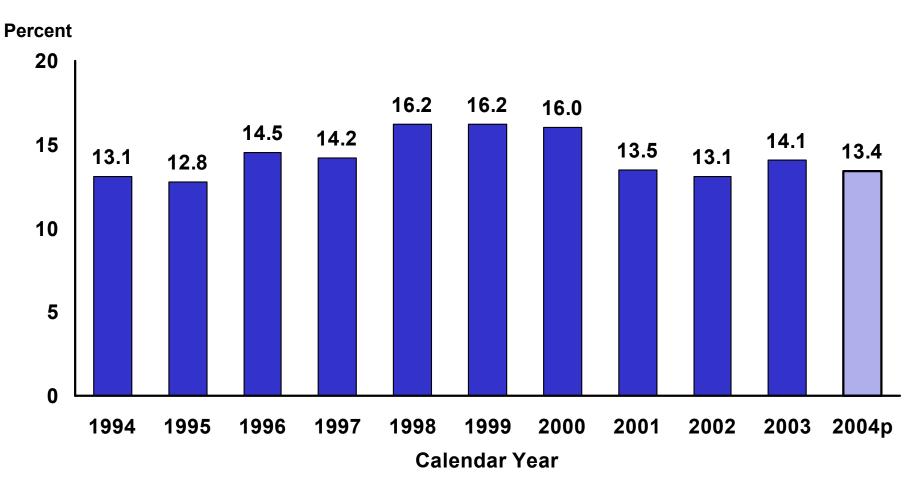
Source: Best's Aggregates & Averages, Review/Preview; 9-11 est. from NCCI

## **WC Loss Ratios - Impact of Large Deductible Policies**

	First	Large
	<u>Dollar</u>	<u>Deductible</u>
Loss	<b>\$ 75</b>	<b>\$ 15</b>
Expense	<u>\$ 25</u>	<u>\$ 23</u>
Premium	<b>\$100</b>	<b>\$ 38</b>
Loss Ratio	<b>75%</b>	40%
<b>Expense Ratio</b>	25%	60%

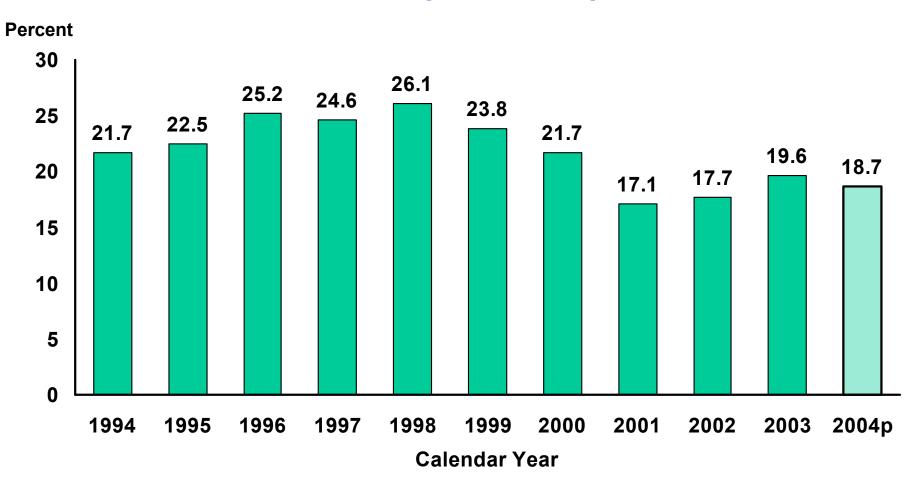
## WC LAE Ratios to Premium Are Leveling Off

**WC Ratio of Loss Adjustment Expense to Net Earned Premiums** 



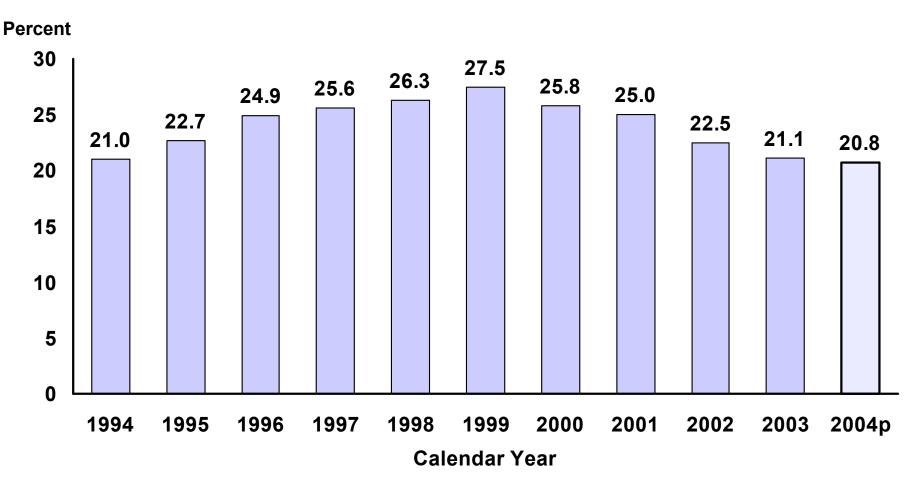
### WC LAE To Loss Ratios Remain Relatively Unchanged

**WC Ratio of Loss Adjustment Expense to Losses** 



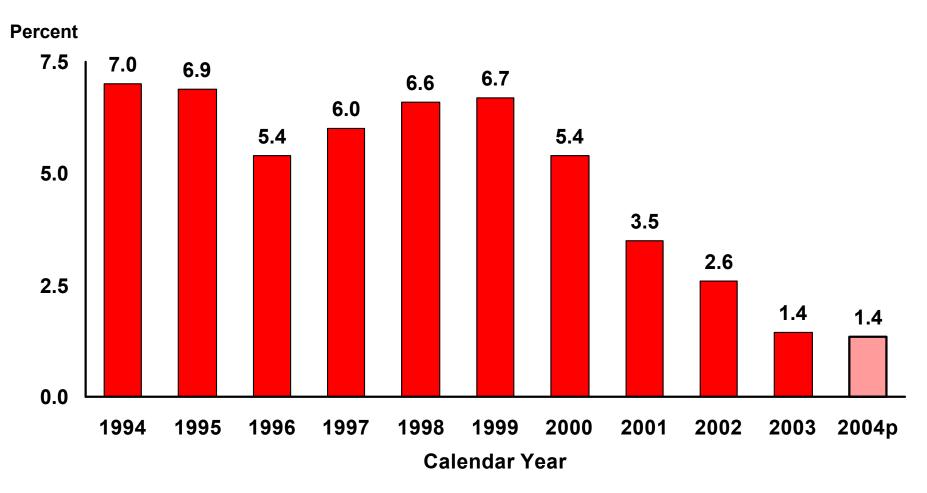
## WC Expense Ratios Showed Little Movement in 2004

WC Ratio of Underwriting Expenses to NWP (Excl Divs)



### **WC Dividend Ratios Are Flattening**

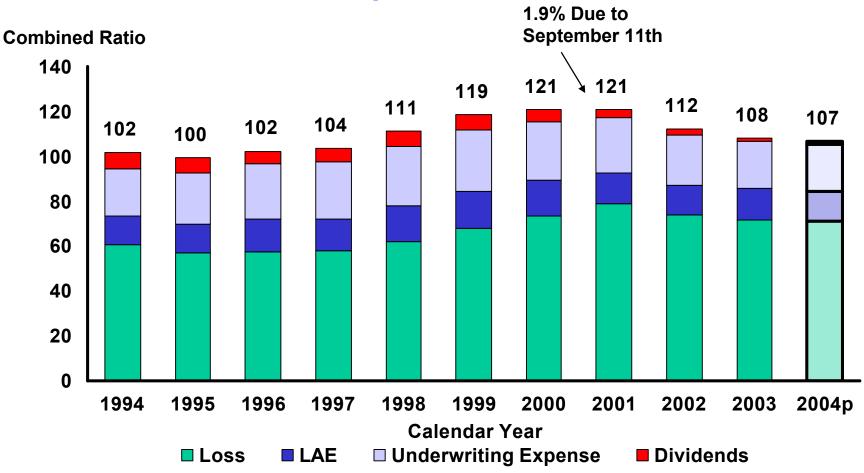
#### WC Ratio of Policyholder Dividends to Net Earned Premium



Source: Best's Aggregates & Averages, Review/Preview

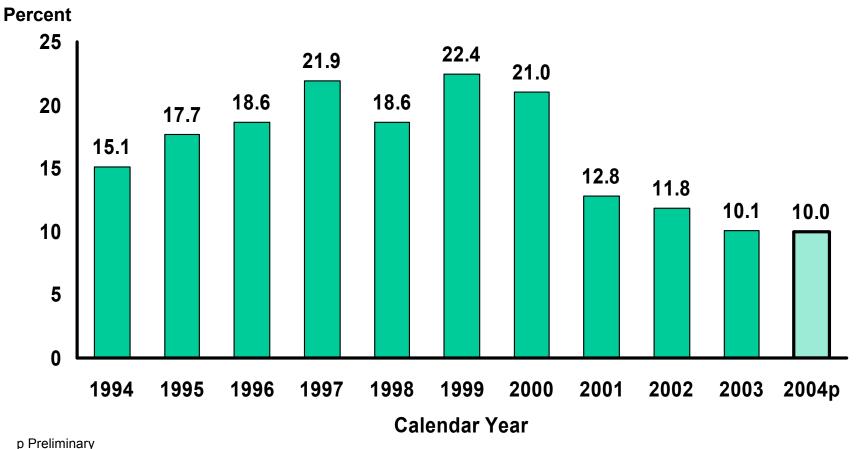
## Workers Compensation Calendar Year Combined Ratio Declined in 2004

#### **Workers Compensation Combined Ratios**



#### **WC Investment Returns Remain Low**

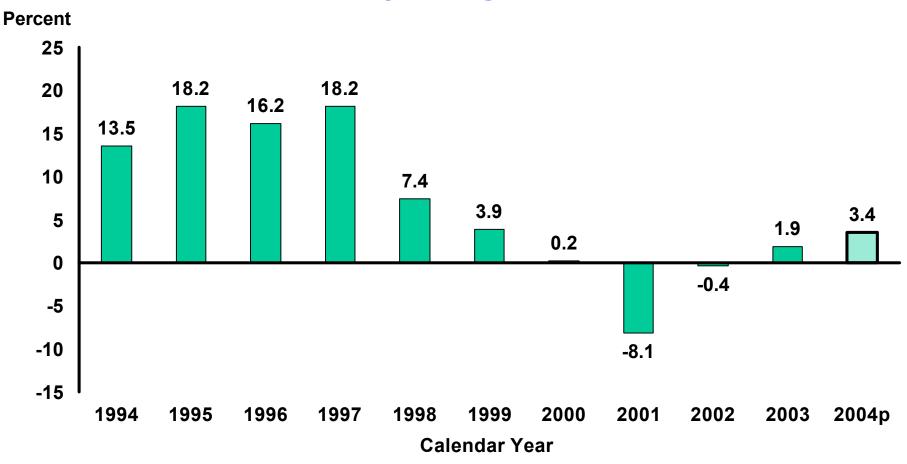
### WC Ratio of Investment Gain and Other Income to Premium



Source for 1994–2003: A.M. Best Aggregates & Averages; 2004p: NCCI estimate based on data in Best's Review/Preview Investment gain includes investment income on insurance transactions and realized capital gains.

### WC Results in 2003 Improved Over 2002

#### **WC Pretax Operating Gain/Loss Ratio**

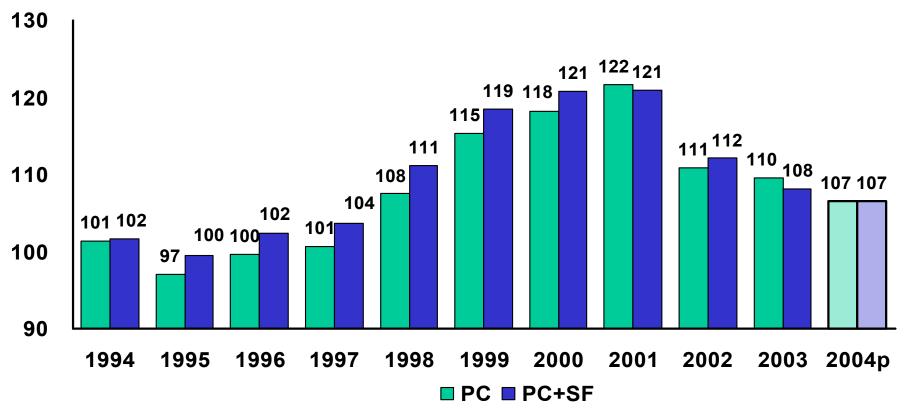


p Preliminary
Source for 1994–2003: A.M. Best Aggregates & Averages; 2004p: NCCI estimate based on data in Best's Review/Preview
Investment gain includes investment income on insurance transactions and realized capital gains.

#### **WC Calendar Year Combined Ratios**

#### Private Carriers Compared to Private Carriers + A.M. Best State Funds

#### **Combined Ratio**



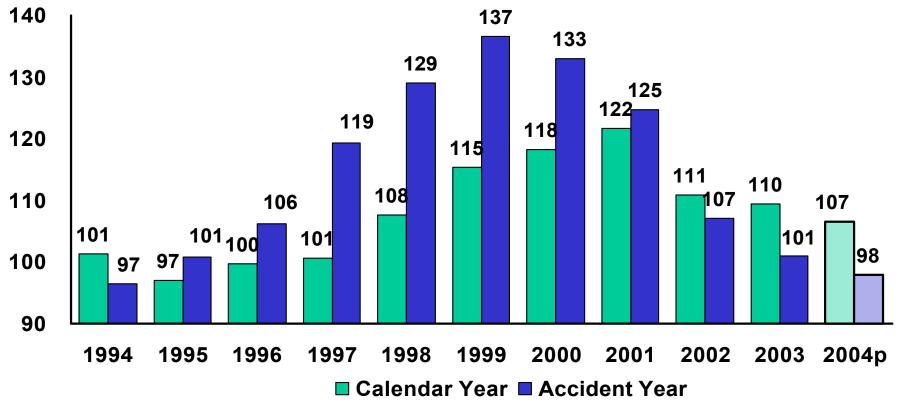
p Preliminary (State Funds include: AZ, CA, ID, LA, MD, ME, MN, OR, RI, TX, and UT) CY 1994-2003 & PC+SF 2004p: Best's Aggregates & Averages, Review/Preview; PC CY 2004p: NCCI estimate

Includes dividends to policyholders.

## Combined Ratio in AY 2004 Continued to Improve

WC Calendar Year vs. Ultimate Accident Year Countrywide—Net—Private Carriers

#### **Combined Ratio**



p Preliminary

CY 1994-2003: Best's Aggregates & Averages; AY 1994-2003: NCCI; CY & AY 2004p: NCCI estimates Accident year data is evaluated as of 12/31/2003 and developed to ultimate.

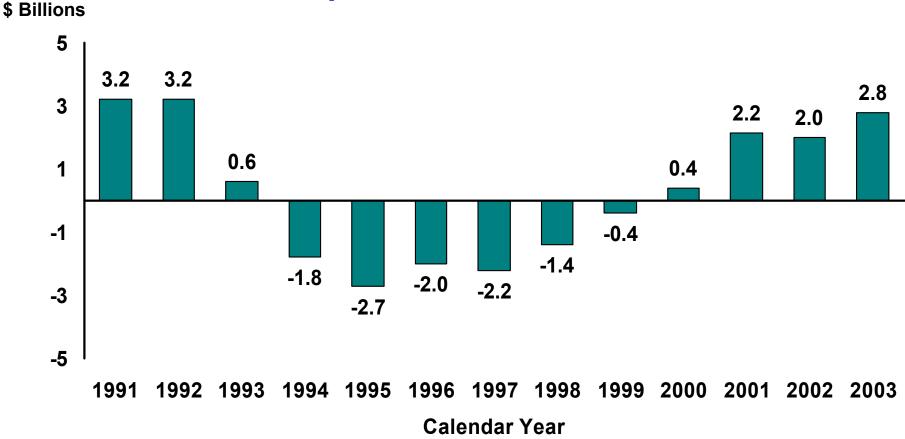
Includes dividends to policyholders.

## What Have Been The Key Factors Impacting Workers Compensation Results?

- Reserve Levels
- Pricing
- Loss Severity Trends (especially Medical)
- Frequency Trends
- Investments

### Workers Compensation Reserve Strengthening Continues

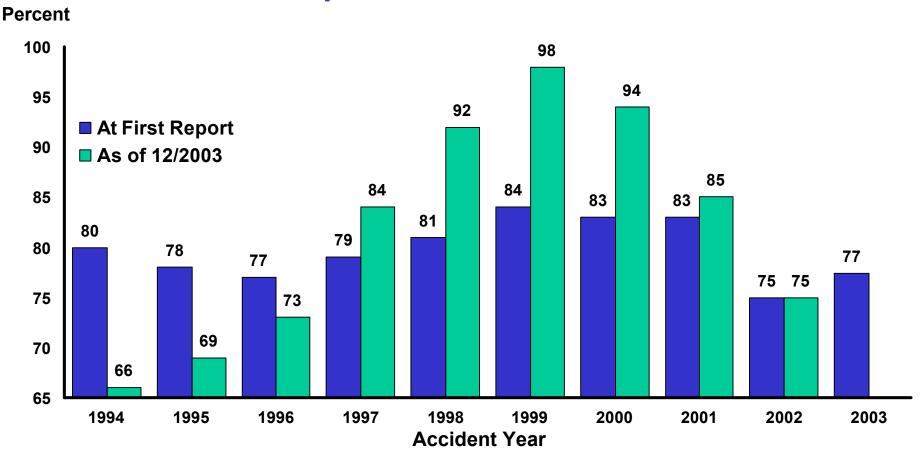
Dollar Amount of Reserve Adjustments on Prior AYs Countrywide—Net—Private Carriers



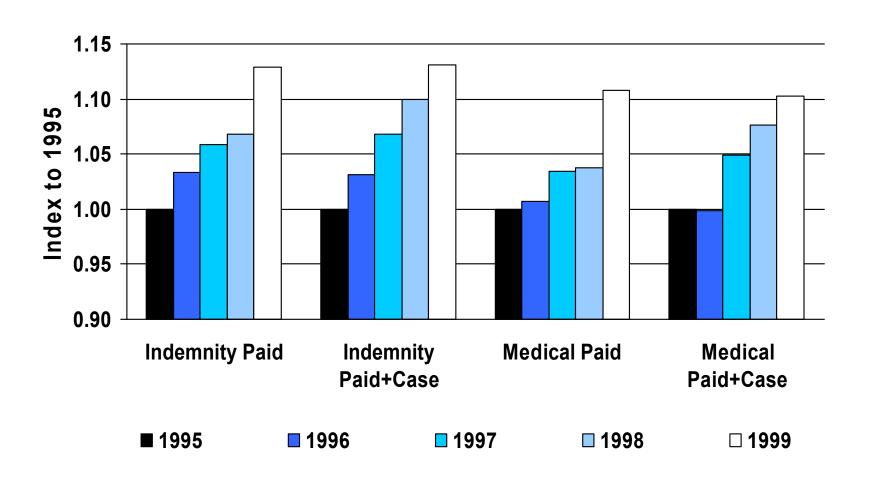
Loss and LAE reserves.

## Workers Compensation Accident Year Loss & LAE Ratios Developed Upward

Accident Year Loss Ratios Including LAE Countrywide—Net—Private Carriers



## WC Changing Development Patterns 1<sup>st</sup> to 5<sup>th</sup> Development



Accident Year Development. First is at 12 months. Source: NCCI's Loss Development Exhibits.

## How Are Final WC Premiums Determined?

#### **ADVISORY ORGANIZATION**

**Advisory Loss Costs** 

**Assigned Risk Rates** 

**Experience Rating Values** 

**Experience Mods** 

Rating Plans and Classifications

#### **INSURANCE COMPANY**

**Final Rate Determination:** 

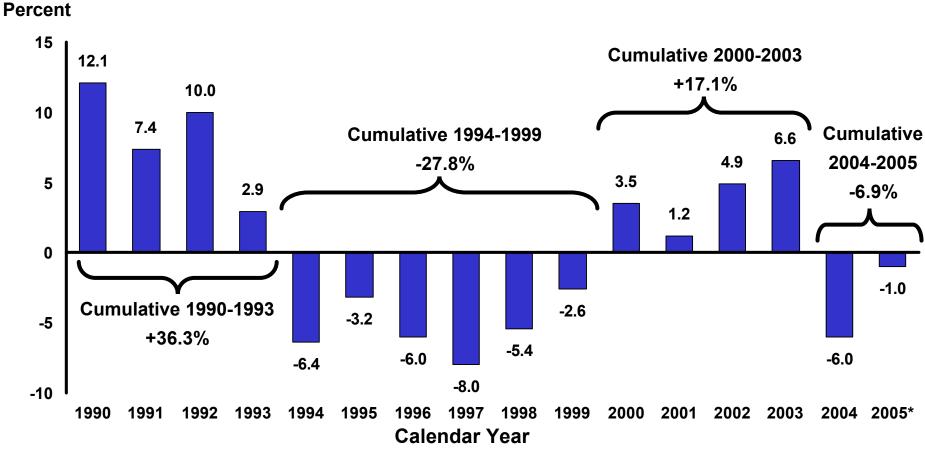
- Expense Multiplier
- Loss Cost Deviations

**Individual Risk Modifications:** 

- Schedule Rating
- Retrospective Rating

## Average Approved Bureau Rate/Loss Cost Still Decreasing

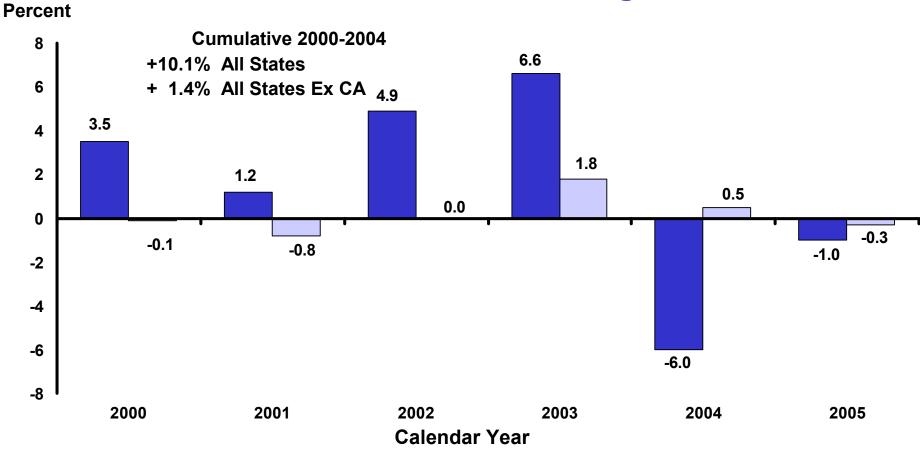
**History of Average WC Bureau Rate/Loss Cost Level Changes** 



<sup>\*</sup> States approved through 03/01/2005 Countrywide approved changes in advisory rates, loss costs and assigned risk rates as filed by the applicable rating organization

### **Average Approved Bureau Rate/Loss**

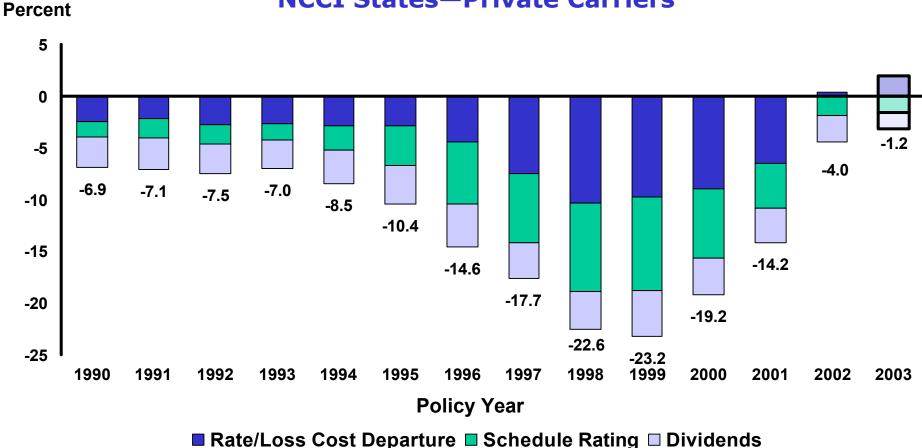
#### All States vs All States Excluding California



<sup>\*</sup> States approved through 03/01/2004 Countrywide approved changes in advisory rates, loss costs and assigned risk rates as filed by the applicable rating organization

## Impact of Discounting on WC Premium





Based on data through 12/31/2003 for the states where NCCI provides ratemaking services NCCI benchmark level includes no provision for profit and contingency Dividend ratios are based on calendar year statistics

## What are Some Primary Components and Factors of WC Premiums?

Loss Cost = f (customer, company, and/or industry losses, inflation, interest rate, medical technology, economy, etc.)

- + Risk Charge
- + Expenses
- <u>+ Tax</u>

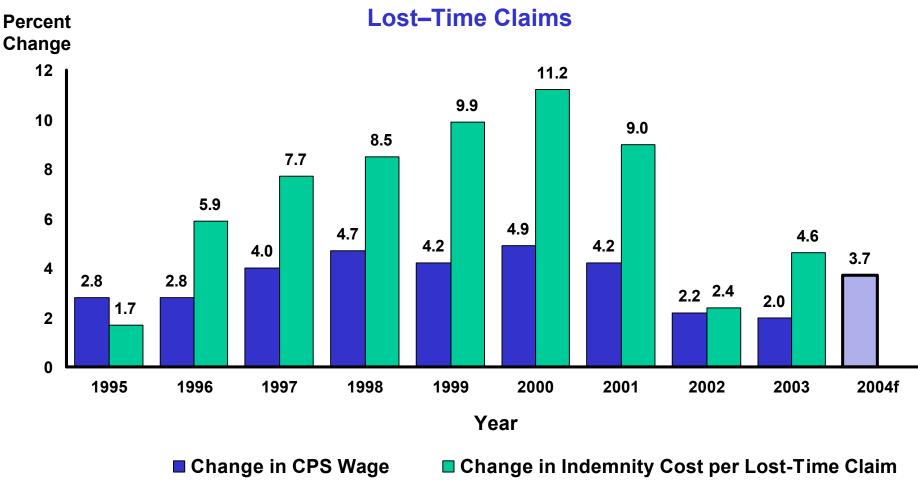
**Premium** 

# The Rate of Change in Workers Compensation Indemnity Claim Costs Is Moderating



Based on data through 12/31/2003, developed to ultimate Based on the states where NCCI provides ratemaking services Excludes the effects of deductible policies

### Workers Compensation Indemnity Severity Is Outpacing Wage Inflation



Source: Calendar Year Current Population Survey, Economy.com; Accident Year Indemnity Severity, NCCI Based on data through 12/31/2003, developed to ultimate Based on the states where NCCI provides ratemaking services

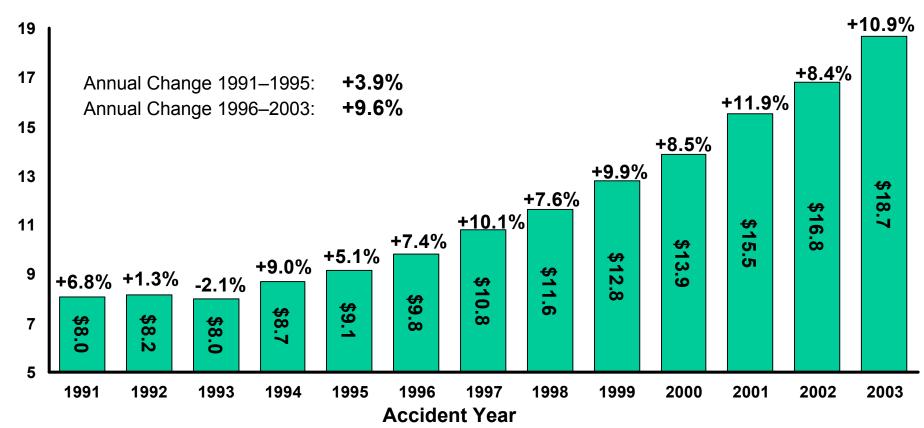
Excludes the effects of deductible policies

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### Workers Compensation Medical Claim Cost Trends Continue to Climb

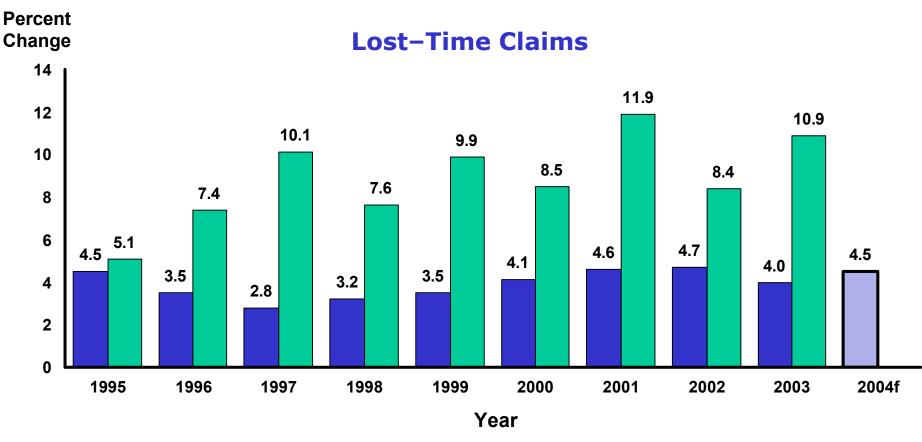


#### **Lost-Time Claims**



Based on data through 12/31/2003, developed to ultimate Based on the states where NCCI provides ratemaking services Excludes the effects of deductible policies

# Workers Compensation Medical Severity Has Been Growing Faster Than the Medical CPI



Source: Calendar Year Current Population Survey, Economy.com; Accident Year medical severity, NCCI

Based on data through 12/31/2003, developed to ultimate

Based on the states where NCCI provides ratemaking services

■ Change in Medical CPI

Change in Medical Cost per Lost-Time Claim

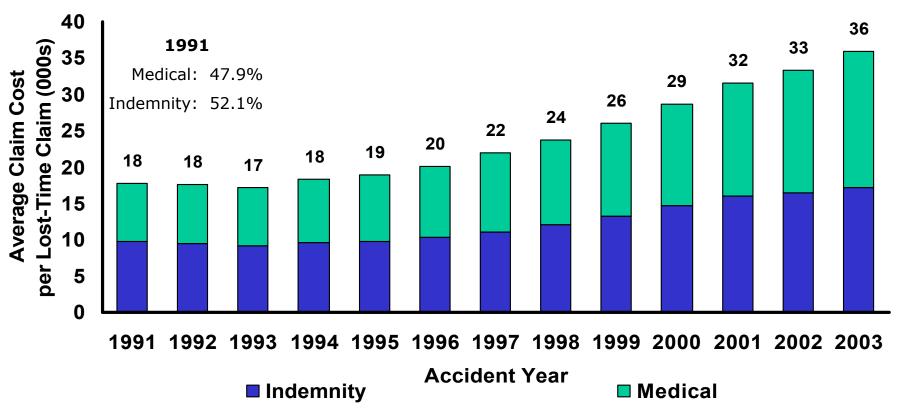
## WC Medical Losses Eclipsed More Than Half of Total WC Losses

**NCCI States—Private Carriers-All Claims** 

2003

Medical: 55.2%

Indemnity: 44.8%

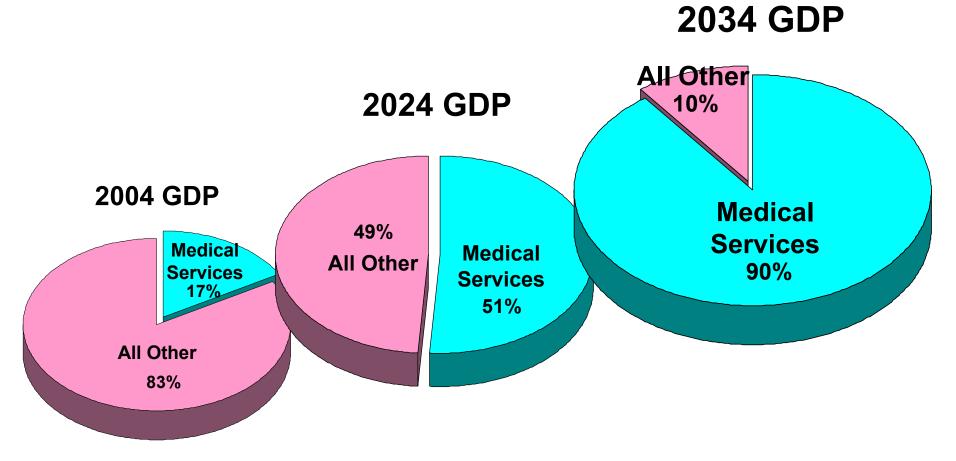


Based on data through 12/31/03, developed to ultimate. Based on the states where NCCI provides ratemaking services. Excludes the effects of deductible policies.

# Rising Medical Costs - Can The Economy Sustain Double Digit Inflation

- Workers Compensation medical makes up 1-2% of total medical services
- Total medical services were 17% of GDP in 2004
- Total medical services have also been growing at much faster rate than other parts of the economy (8.4% vs 4.8%)
- What are implications to GDP if medical services were to grow at 10% while rest of GDP grew at 4%

### Implications for Medical Trends



Medical services as % of GDP=17%

Medical services growth=10%, GDP Growth=4.0%

Medical Services include Medical Care, Drug Preparations and Sundries, and Ophthalmic Products and Orthopedic Appliances

### **NCCI Prescription Drug Study**

 The growth in WC prescription drugs' share of total medical costs continues:

Accident Year 1997 10.1%

Accident Year 2002 12.1%

- Main driver of increase in WC prescription costs:
  - From 1997 to 2001: Utilization increases
  - In 2002: Rx price increases had slightly larger impact than utilization increases
- Prescription drug fee schedules exist in 28 states —all reimburse using average wholesale prices (AWP)
- Using Pharmacy Benefit Managers (PBMs) looks promising as a cost containment strategy. Other factors also need to be assessed and addressed.

## The Impact of Inflation is More Sensitive on Excess Policies

	Year 1	Year 2	Change
Gross Loss	\$360,000	\$385,200	7%
Deductible	\$250,000	\$250,000	-
Excess Loss	\$110,000	\$135,200	23%

### With Medical Technology, How Big Can a WC Claim Become?

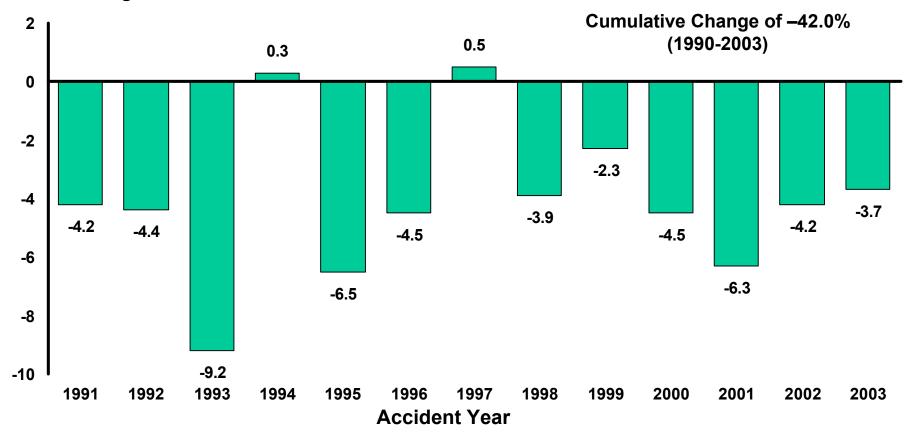
- Consider a 25-year old quadriplegic
- Indemnity benefits of \$23,500 a year
- 24-hour attendant care costs of \$135,000 a year
- Other medical costs of \$72,500 a year
- These costs continue until death

Age at	Medical Inflation Rate					
Death	5%	5% 7%				
45	\$7	\$8	\$8			
60	\$16	\$20	\$27			
75	\$33	\$49	\$82			
90	\$64	\$118	\$266			

# Workers Compensation Lost-Time Claim Frequency Continues to Fall

Frequency per 100 Workers (Lost-Time Claims)

#### **Percent Change**

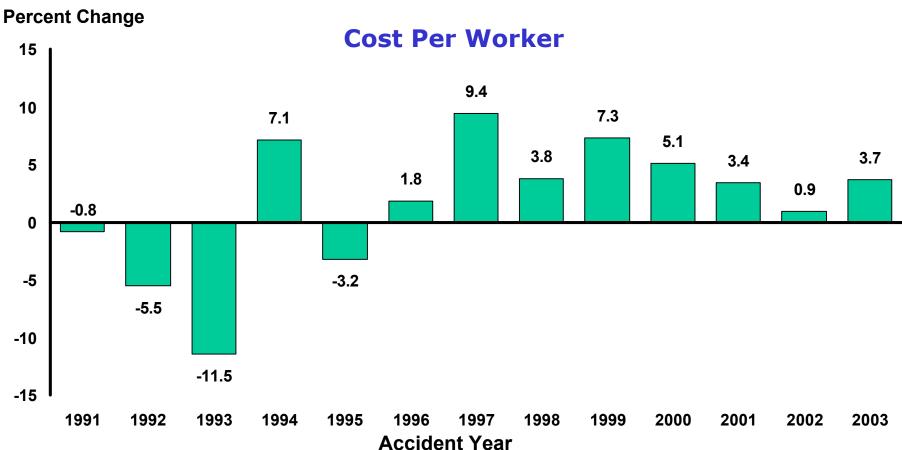


Based on data through 12/31/2003, developed to ultimate Based on the states where NCCI provides ratemaking services Excludes the effects of deductible policies

# **NCCI's Frequency Study Update**

- The continued decline in frequency remains a bright spot for workers, employers, and their insurers
- The claim frequency decline is most pronounced for smaller claims, causing indemnity and medical severity trends to be higher than those of solely prices and utilization
- The decline in claim frequency spanned occupations, claim types, regions, employer size, use of large deductibles, and experience modification factors
- The significant rise in indemnity and medical costs per claim diminishes the effect of the favorable reduction in claim frequency on overall claim costs

# The Annual Change in Lost-Time Claim Costs per Worker Continued to Increase in 2003



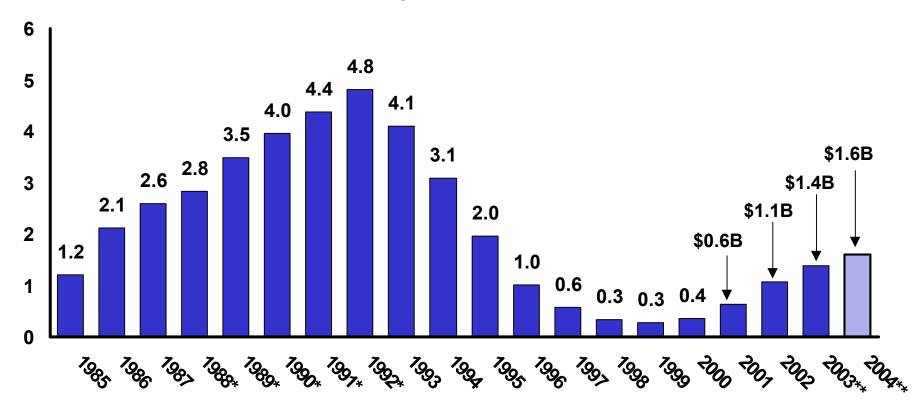
Based on data through 12/31/2003, developed to ultimate Based on the states where NCCI provides ratemaking services Excludes the effects of deductible policies

# What Are Today's Key Issues in Workers Compensation?

- WC Medical Inflation
- Reserve Levels
- Growth in Residual Markets
- Expiration of Terrorism Risk Insurance Act (TRIA) 12/31/2005
- Legislative Issues
- Developments in Ratemaking

# Workers Compensation Residual Market Premium Volume

NCCI-Serviced Workers Compensation Residual Market Pools \$ Billions as of September 30, 2004



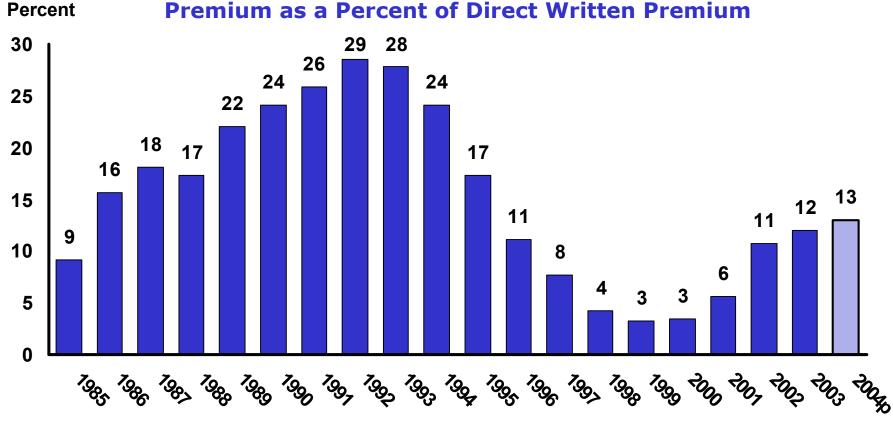
\* Excludes Maine Residual Market Pool

\*\* Incomplete Policy Year Projected to Ultimate

**Policy Year** 

# **Workers Compensation Residual Market Shares Continue to Rise**

Workers Compensation Insurance Plan States\*
Premium as a Percent of Direct Written Premium



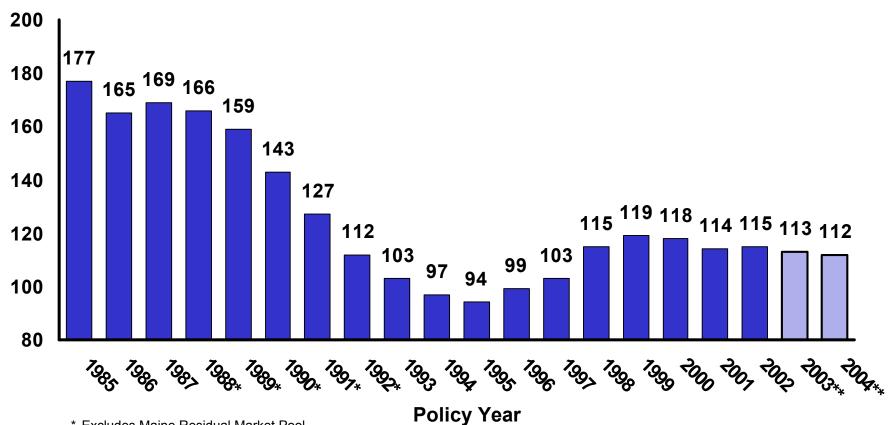
p Preliminary

\* NCCI Plan states plus DE, IN, MA, MI, NJ, NC

Calendar Year

# Workers Compensation Residual Market Combined Ratios

NCCI-Serviced Workers Compensation Residual Market Pools
Percent As of September 30, 2004

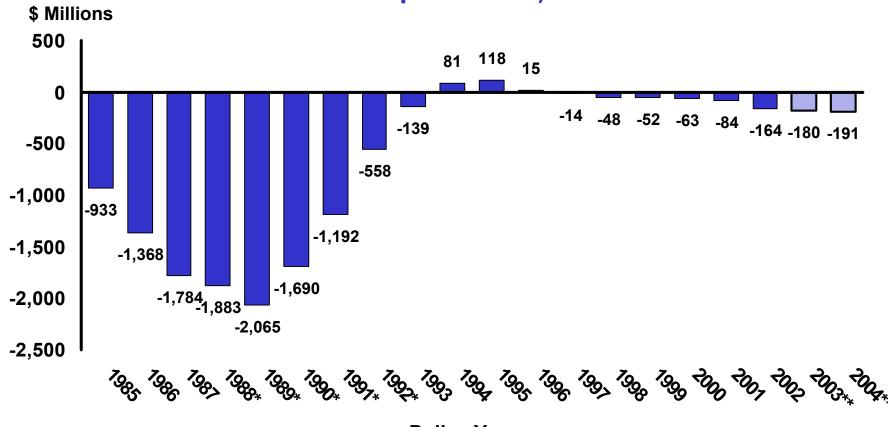


\* Excludes Maine Residual Market Pool

<sup>\*\*</sup> Incomplete Policy Year Projected to Ultimate

# WC Residual Market Underwriting Results Continue to Decline

NCCI-Serviced Workers Compensation Residual Market Pools
As of September 30, 2004



\* Excludes Maine Residual Market Pool

\*\* Incomplete Policy Year Projected to Ultimate

**Policy Year** 

# Unique Challenges of Workers Compensation and Terrorism Coverage

- Coverage mandated by law, exclusions are not possible
- Benefits are defined by law, limits aren't possible
- Risks that aren't written voluntarily will be backed by the entire market through the involuntary pool
- Terrorism Risk Insurance Act (TRIA) expires 12/31/2005
  - Government backstop goes away, unless Congress renews
  - Any policy effective after 1/1/2005 has exposure
  - Notification endorsement in the event of TRIA's expiration
- Congressional Budget Office Report

### When Does TRIA Make a Difference?

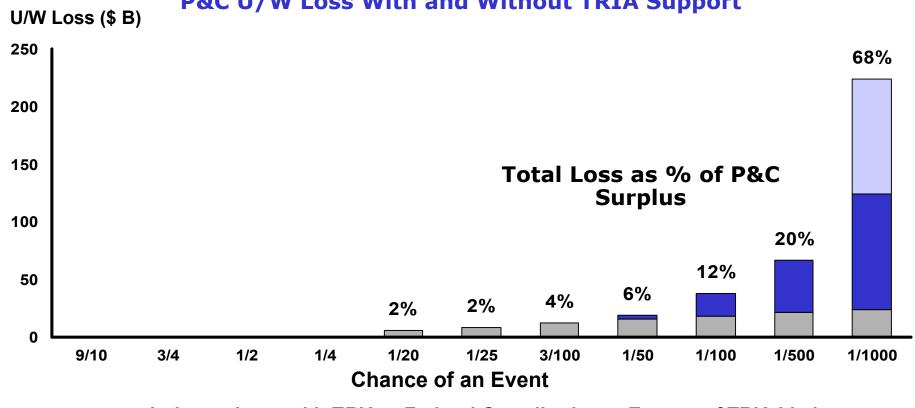
 TRIA's direct financial impact is limited to infrequent extreme events

 TRIA is not triggered under approximately 98% of the modeled scenarios

 TRIA enables the P&C market to function effectively with minimal financial exposure to taxpayer funds

# **Under Most Scenarios TRIA Is Dormant But When TRIA Is** Triggered It Is Vital

**P&C U/W Loss With and Without TRIA Support** 



■ Industry Loss with TRIA ■ Federal Contribution ■ Excess of TRIA Limit

Source: EQECAT, NCCI

# **Legislative Update Issues and Trends**

#### **2004 Session Overview**

- Fairly active session
- More than 85 enacted
- Many proposals for benefit increases, but few enacted
- Workers Compensation high on the radar for governors as they compete to attract business

# Legislative Update Issues and Trends

#### **2004 Key Themes**

- Medical cost controls physician fee schedules, hospital schedules
- Expanded presumption of compensability for safety workers and emergency responders
- Medical Privacy
- Indemnity benefit increases
- Attorney fees

### **Legislative Update**

#### 2004 Key Enacted Legislation

#### California

- SB 899: major reform effort

#### Tennessee

- HB 3531: numerous benefit changes resulting in –6.3% impact
- Medical fee schedule to be implemented effective in 2005

#### Vermont

- H-632: several definitional changes and administrative modifications resulting in a –1.2% impact
- Medical fee schedule to be implemented effective in 2005

### **Legislative Update**

#### 2004 Key Enacted Legislation (cont'd)

#### lowa

- HF 2581: changes use of loss of earnings capacity, apportionment for 2<sup>nd</sup> injuries, resulting in a –2.6% impact
- Nebraska, Florida, Maryland, South Dakota, Texas
  - Changes in medical fee schedules
  - Adopting most recent Medicare RBRVS

## Legislative Update Issues and Trends

#### **2005 Emerging Themes**

- Containing Medical Costs
  - Employer vs Employee Choice of Physician
  - Medical treatment networks, managed care
  - Medical Fee Schedules
  - Treatment guidelines
- Indemnity Benefit Increases
- Second Injury Funds
- OK and TX major reform initiatives
- WV marketplace to allow private carriers

# **Developments in Ratemaking**

### **Expanded Data Reporting**

- Large Loss Call
- Expansion of Unit Statistical Plan to 10 reports

### **New Ratemaking Procedures and Methods**

- Aggregate Ratemaking
- Class Ratemaking Re-engineering
- Retrospective Rating

# **Ratemaking Procedures**

#### **Aggregate Ratemaking**

- Large Loss Procedure
- Catastrophe Provision
- Implemented in 2004 (with filings effective 1/1/2005 and after)
- Revamped Econometric Trending Model Underway

### Class Ratemaking Re-engineering

- Loss Development by Body Part
- Large Loss Treatment
- Credibility Methodology
- Analyses/Projects Currently Underway

# Ratemaking Procedures (continued)

### **Retrospective Rating**

- New ELF procedure
- Catastrophe Provision
- Implemented During 2004 (with filings effective 1/1/2005 and after)

# Workers Compensation Key Issues for the Future

- How will the industry deal with terrorism exposure? And will the government renew TRIA?
- Where are severity trends headed will they accelerate or moderate?
- Will written premiums continue to increase?
- What impact will changes in the economy have, especially on frequency?
- What impact will reserve deficiencies have on results?
- Will potential threats to rollback reforms or expand benefits succeed?
- Where are investment returns headed?

# **WORKERS COMPENSATION**- CURRENT ISSUES -

(SESSION WC-4)

**Q & A**