

## State of the Line



# PROPERTY/CASUALTY (P/C) RESULTS



## P/C Industry Net Written Premium Growth

#### **Private Carriers**

Line of Business	2016 (\$B)	2017p (\$B)	% Change From 2016		
Personal Auto	207.4	221.9	7.0		
Homeowners	80.6	82.2	2.0		
Other Liability (Incl. Product Liability)	47.9	50.1	4.6		
Workers Compensation	40.1	39.8	-0.7		
Commercial Multiple Peril	33.8	34.1	0.9		
Fire & Allied Lines (Incl. EQ)	26.3	26.4	0.4		
Commercial Auto	28.3	30.6	8.1		
All Other Lines	63.7	67.0	5.2		
Total P/C Industry	528.0	552.1	4.6		



Source: NAIC's Annual Statement data for individual carriers prior to consolidation of affiliated carriers



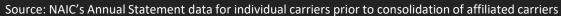


## P/C Industry Net Combined Ratio

#### **Private Carriers**

Line of Business	2016 (%)	2017p (%)	Difference From 2016
Personal Auto	106	103	-3
Homeowners	93	107	14
Other Liability (Incl. Product Liability)	111	101	-10
Workers Compensation	94	89	-5
Commercial Multiple Peril	102	108	6
Fire & Allied Lines (Incl. EQ)	90	124	34
Commercial Auto	111	111	0
All Other Lines	87	98	11
Total P/C Industry	101	104	3







## Impact of Catastrophes on P/C Losses

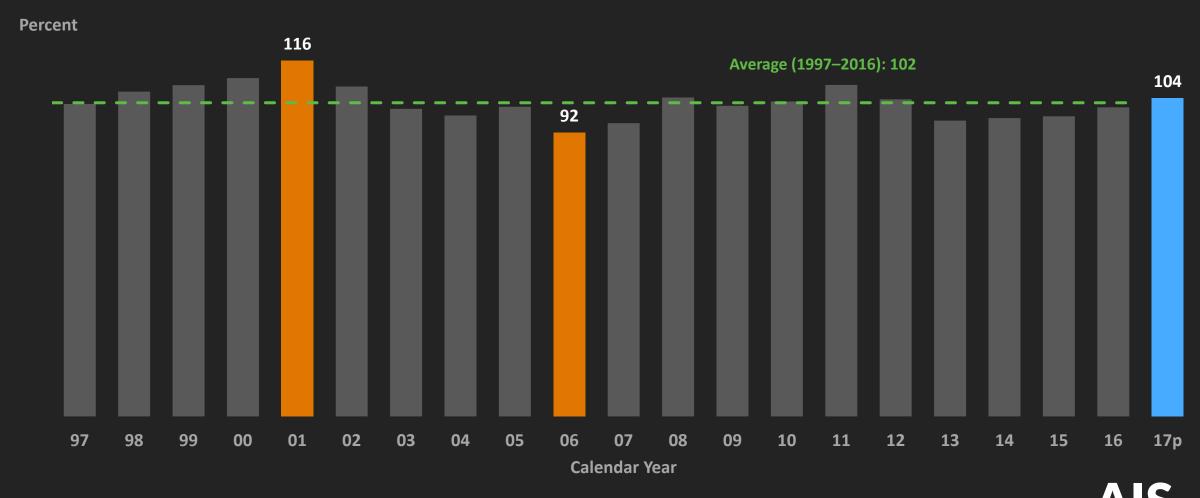
and flood events produced up to \$11B in insured losses Wildfires destroyed structures, homes, and buildings, resulting in over \$11B in losses Major hurricanes had a combined impact on insured losses of \$56B



Several tornado, hail, wind,

## P/C Industry Net Combined Ratio

**Private Carriers** 





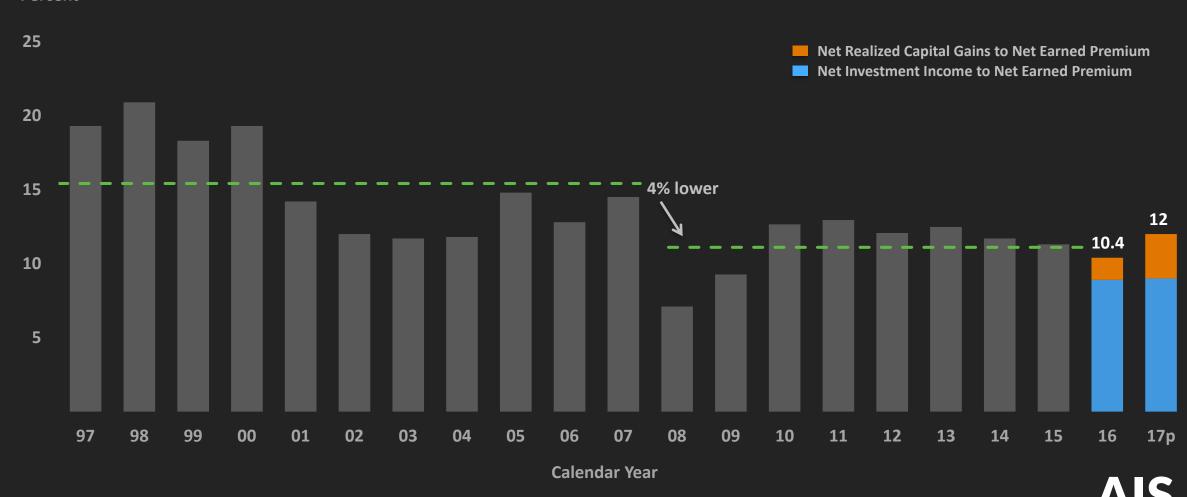
Sources: 1997–2007 and 2012–2017p NAIC's Annual Statement data; 2008–2011 ISO

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### P/C Industry Investment Gain Ratio

#### **Private Carriers**

**Percent** 



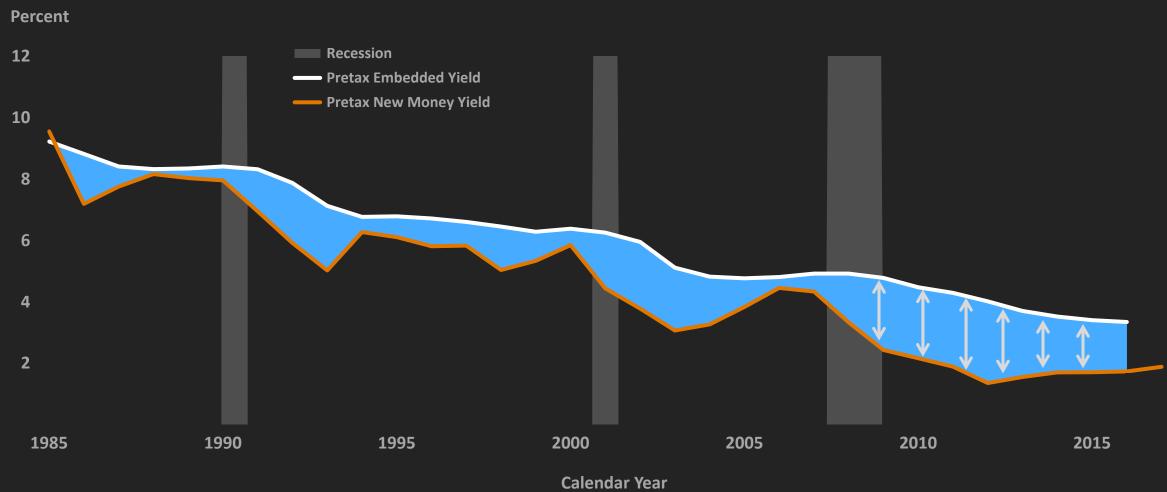
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p Preliminary

Sources: 1997–2007 and 2013–2017p NAIC's Annual Statement data; 2008–2012 ISO

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## P/C Industry Bond Embedded Yield and New Money Yield

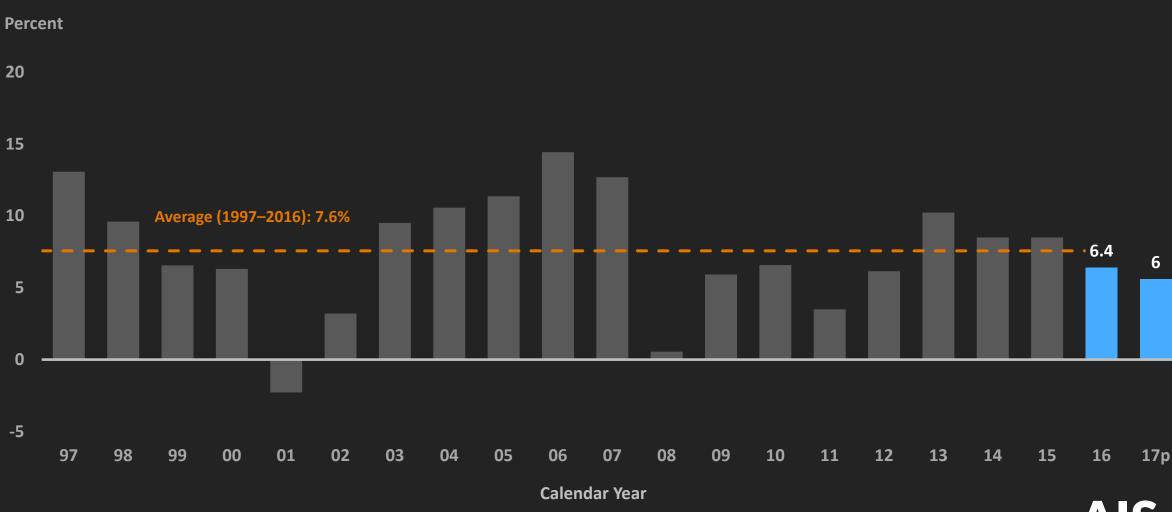


Sources: NCCI, A.M. Best's Aggregates & Averages, Federal Reserve Bank, Value Line, TreasuryDirect.gov, Barron's, and Bloomberg Embedded Yield is the reported investment income for bond instruments divided by the asset value of those instruments New Money Yield is the pretax yield on bonds



## P/C Industry After-Tax Return on Surplus

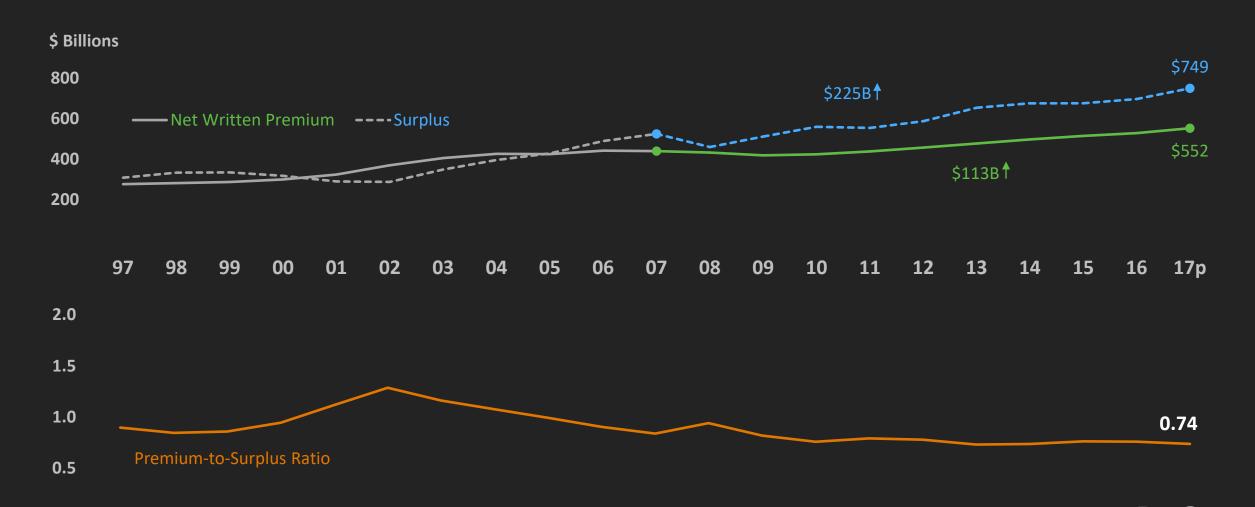
**Private Carriers** 



p Preliminary Sources: 1997–2007 and 2013–2017p NAIC's Annual Statement data; 2008–2012 ISO After-tax return on average surplus, excluding unrealized capital gains AIS 2018 30th Anniversary

## P/C Industry Premium-to-Surplus Ratio

**Private Carriers** 





Sources: 1997–2007 and 2013–2017p NAIC's Annual Statement data; 2008–2012 ISO

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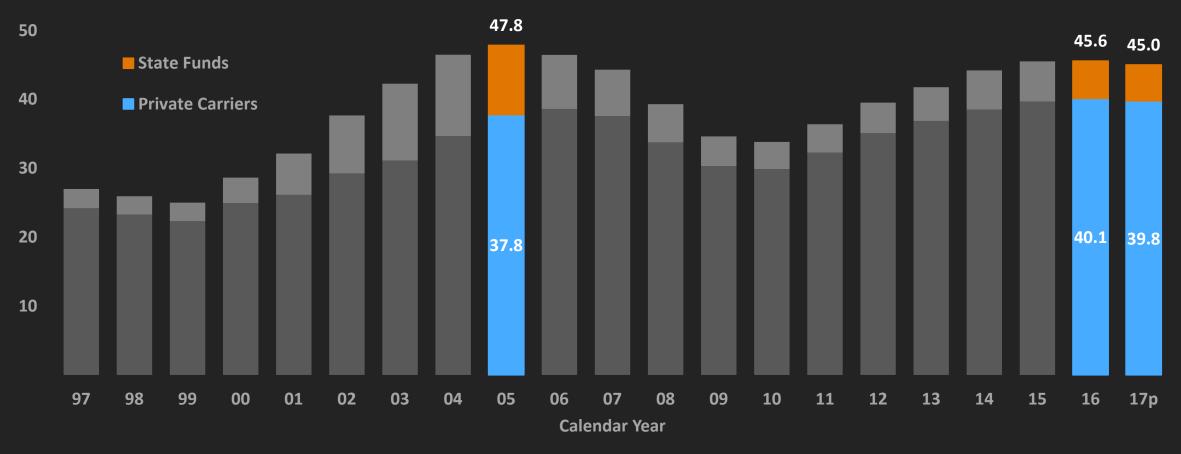
# WORKERS COMPENSATION (WC) PREMIUM



#### WC Net Written Premium

#### Private Carriers and State Funds

#### \$ Billions

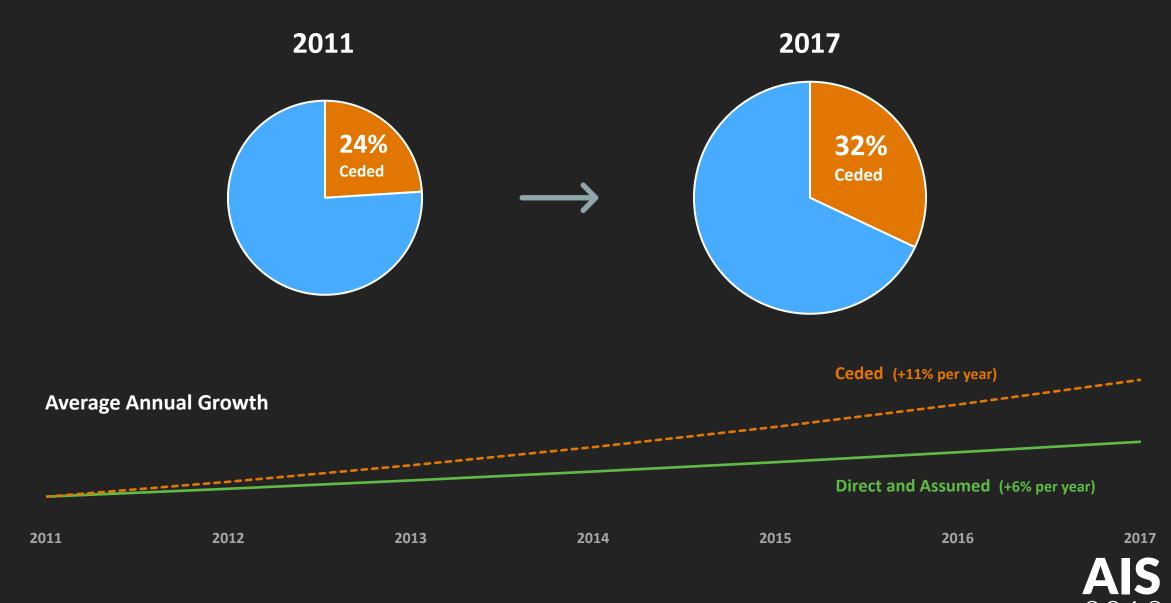




Source: NAIC's Annual Statement data; includes state insurance fund data for the following states: AZ, CA, CO, HI, ID, KY, LA, MD, MO, MT, NM, OK, OR, RI, TX, and UT Each calendar year total for state funds includes all funds operating as a state fund in that year



#### Proportion of Total WC Premium Ceded

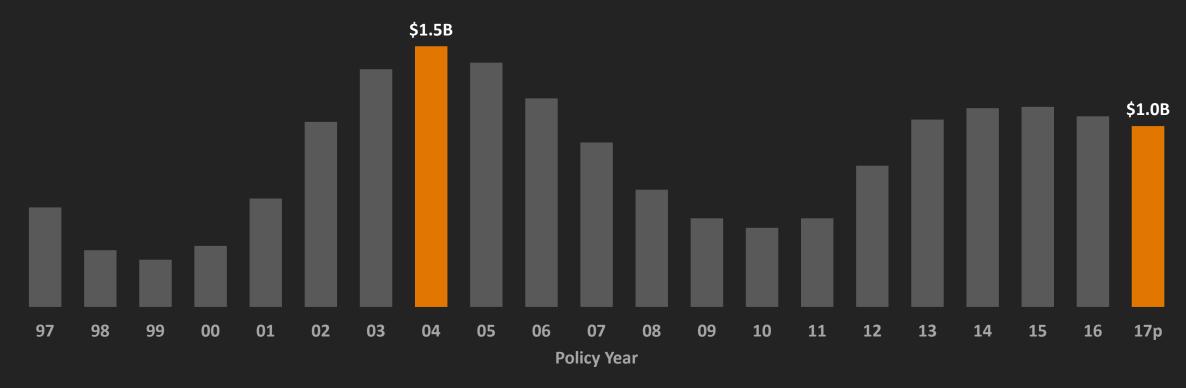


Source: NAIC's Annual Statement data

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#### WC Residual Market Premium

NCCI-Serviced WC Residual Market Pools

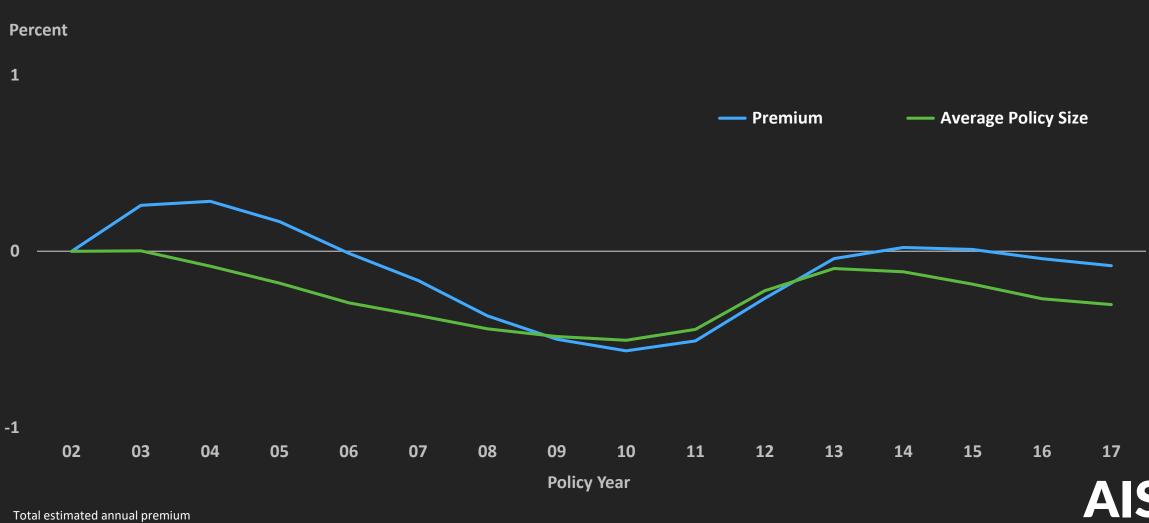


p Preliminary, incomplete policy year projected to ultimate
Includes Pool data for all NCCI-serviced WC Residual Market Pool states, valued as of 12/31/2017
Tennessee Reinsurance Mechanism premium is not included
Source: NCCI's Residual Market Quarterly Results



### WC Residual Market—Changes in Premium vs. Average Policy Size

NCCI-Administered WC Residual Market Plan States



Total estimated annual premium Includes Pool and direct assignment data for all NCCI-administered WC Residual Market Plan states

2018

#### WC Residual Market Premium by Size of Risk

NCCI-Administered WC Residual Market Plan States

Premium (\$ Millions)							
S	ize of R	lisk	Q1 2017	Q1 2018		% Change	e From 2017
\$ 0	-	2,499	36.1	39.3			9
\$ 2,500	-	4,999	20.0	19.4		-3	
\$ 5,000	-	9,999	26.5	25.3		-5	
\$ 10,000	-	49,999	68.5	61.4		-10	
\$ 50,000	-	99,999	21.2	19.5		-8	
\$ 100,000	and	Over	26.6	20.2	-24		
Total			198.9	185.1		-7	



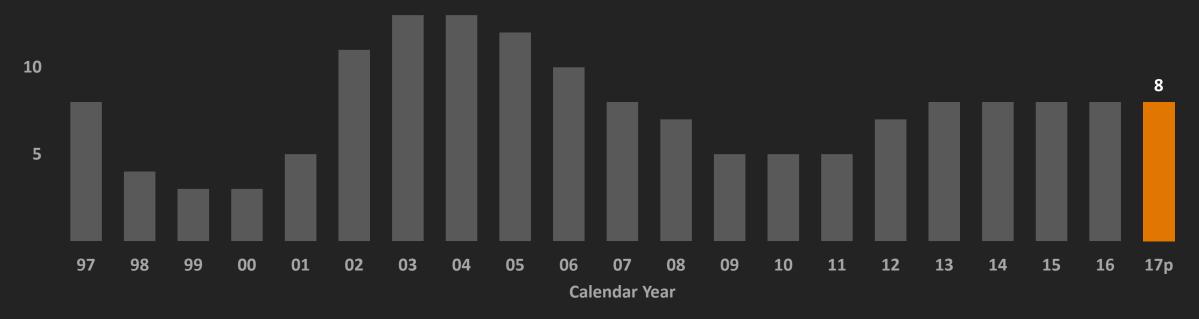
#### WC Residual Market Share

NCCI-Serviced WC Residual Market Pools

**Percent** 

20

15

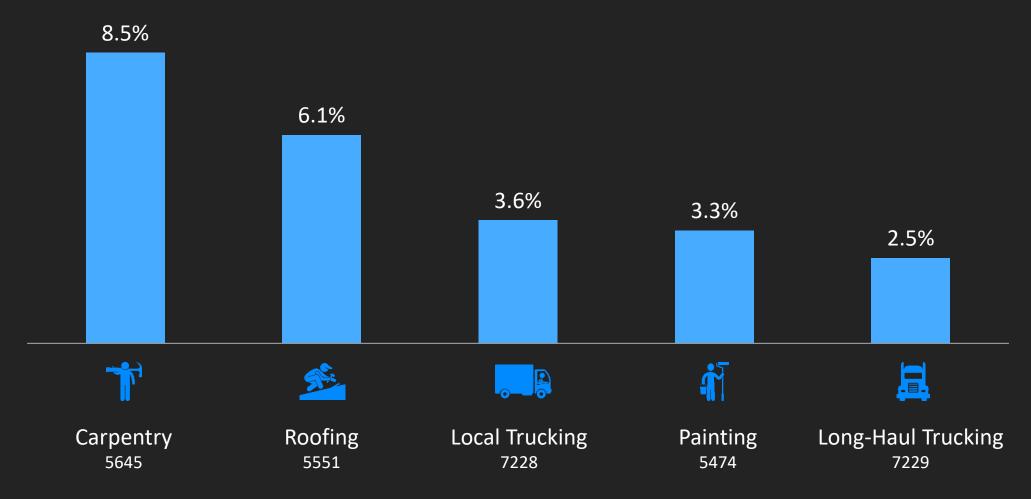


p Preliminary Includes Pool and direct assignment data for all NCCI-serviced WC Residual Market Pool states Source: NCCI's *Residual Market Management Summary* 



#### Top Five Residual Market Class Codes

Based on Residual Market Plan Total Written Premium for 2017

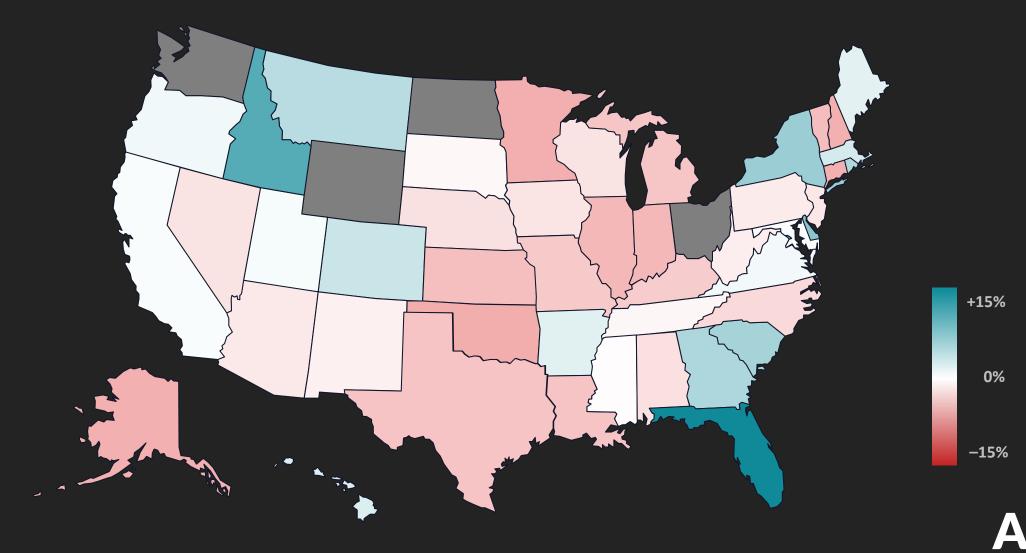


Top classification codes excluding the Standard Exception classifications
Results are based on manual premium volume for both intrastate policies and the state-specific portion of interstate policies
Source: NCCI's Policy data



## WC Direct Written Premium Change—2017

**Private Carriers** 

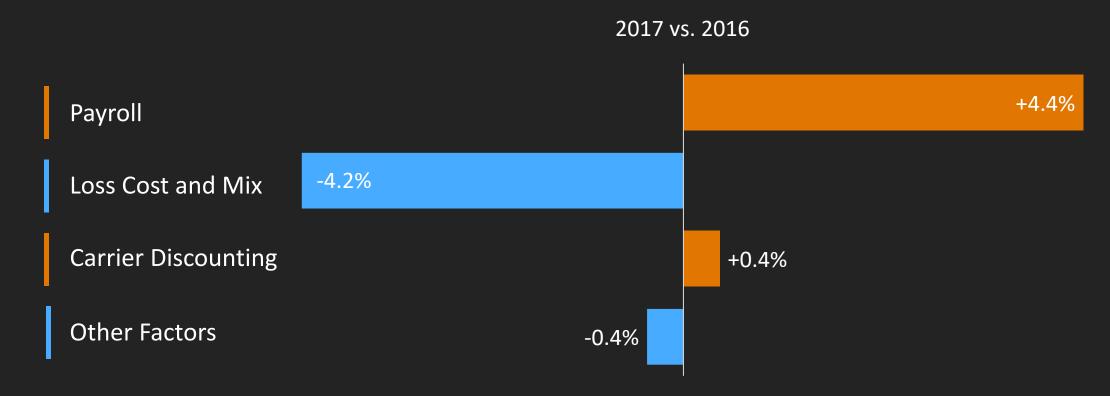




#### WC Direct Written Premium Change by Component

Private Carriers—NCCI States

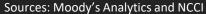
Change in Direct Written Premium: 0.0%





#### Increases in Payroll Continue to Drive Changes in Premium

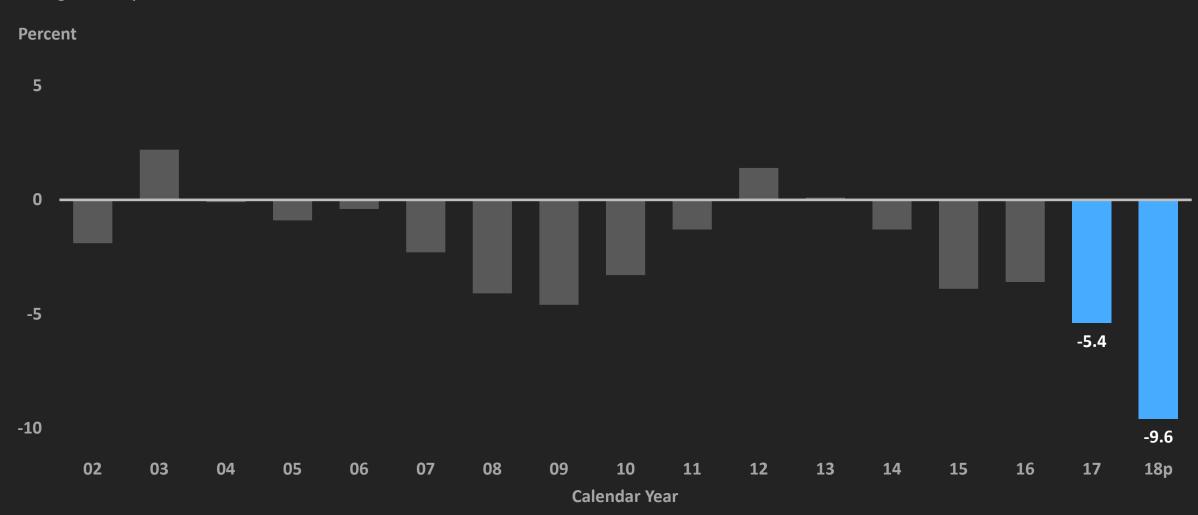
Forecast Change 2016–2017 **Payroll** +3.4% Wage Rate **Employment** +1.6% +1.8% 4% 4% 3% 3% 2% 2% 1% 1% Prof. & Trade, **Education Manufac- Financial** Construc- Leisure & All Other Leisure & All Other Prof. & **Education Manufac-**Financial Construc-**Business Transport., & Health Activities** Hospitality turing **Activities** Business Transport., & Health turing tion Hospitality Services & Utilities Services



Services & Utilities Services

#### WC Approved Changes in Bureau Premium Level

Weighted by Effective Date—NCCI States



p Preliminary

Source: NAIC's Annual Statement Statutory Page 14

Values reflect changes in average premium levels between years, based on approved changes in advisory rates, loss costs, assigned risk rates, and rating values, as of 5/10/2018 IN and NC are filed in cooperation with state rating bureaus

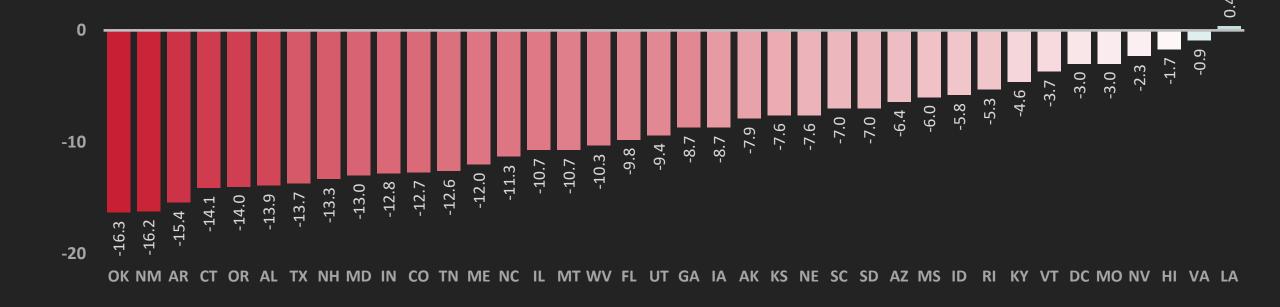


#### Most Recent Changes in Bureau Premium Level

Voluntary Market, Excludes Law-Only Filings

**Percent** 

10



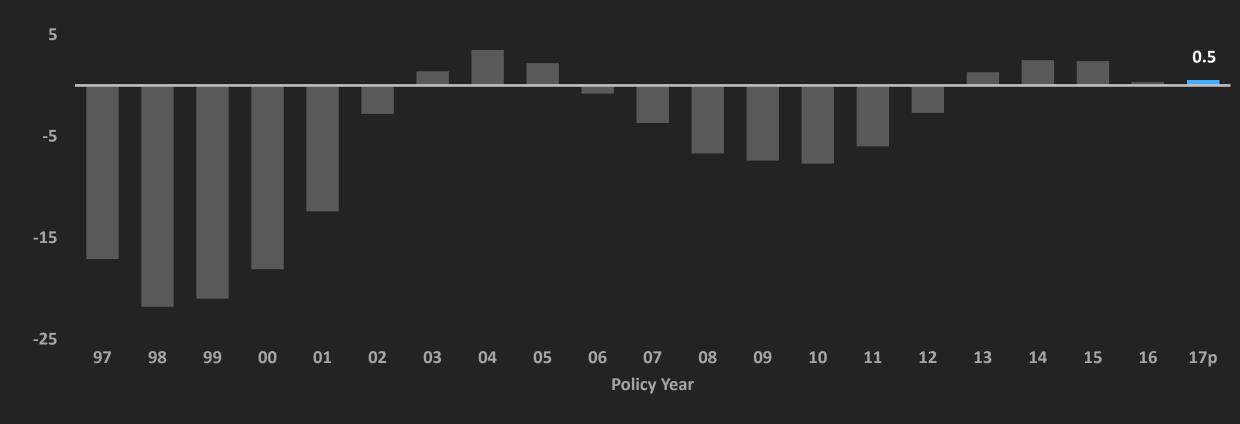




#### WC Impact of Discounting on Premium

Private Carriers—NCCI States

**Percent** 



p Preliminary

Sources: NAIC's Annual Statement Statutory Page 14 and NCCI's Financial Call data
Rate/loss cost departure reflects carrier departure from NCCI rate level, which excludes a profit and contingency provision and expense constant
Based on data for all states where NCCI provides ratemaking services, excluding TX



#### WC Impact of Discounting on Premium by Component

Private Carriers—NCCI States



p Preliminary

Sources: NAIC's Annual Statement Statutory Page 14 and NCCI's Financial Call data

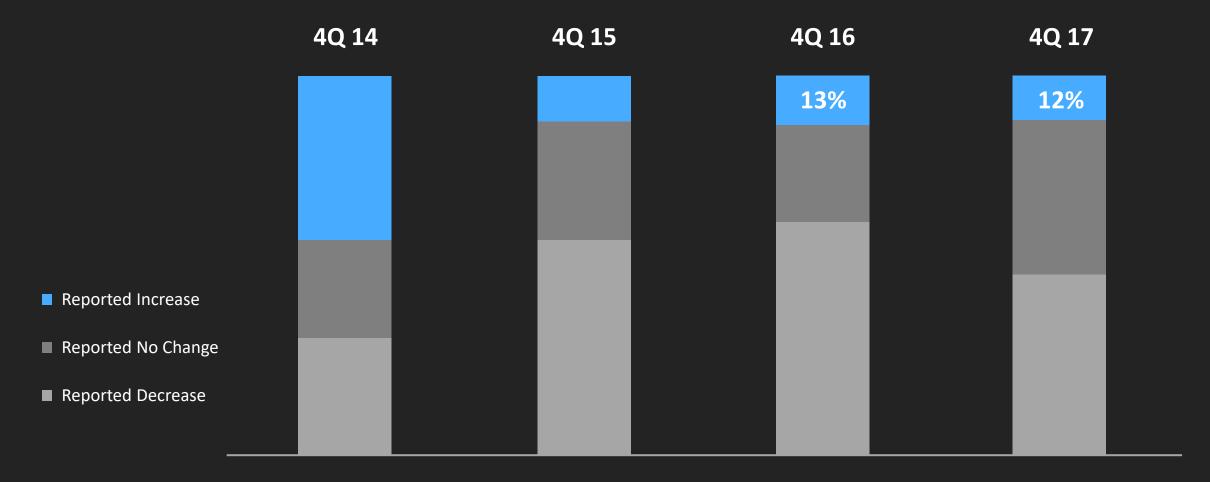
Dividend ratios are based on calendar year statistics

Rate/loss cost departure reflects carrier departure from NCCI rate level, which excludes a profit and contingency provision and expense constant Based on data for all states where NCCI provides ratemaking services, excluding TX



#### WC Pricing—Market Index Survey

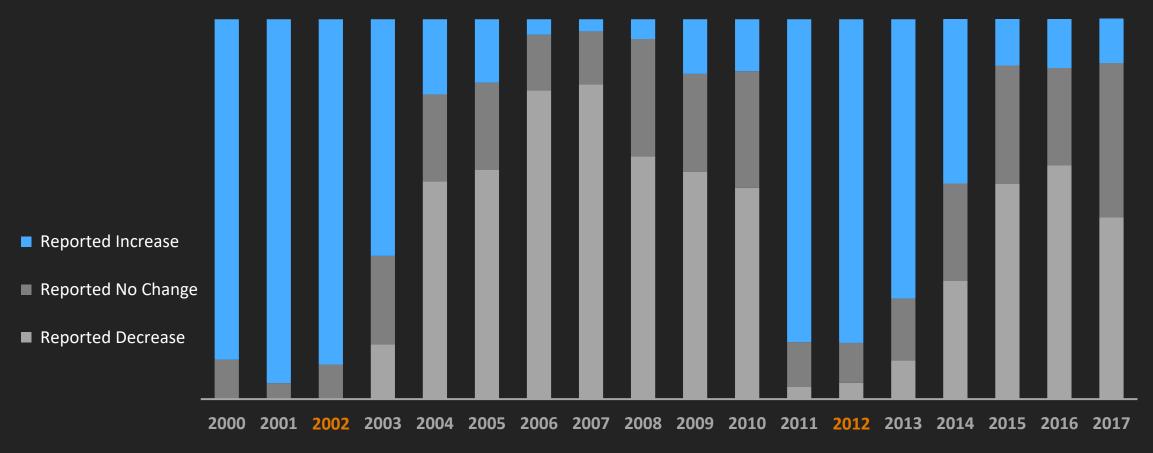
Percentage of Respondents





### WC Pricing—Market Index Survey

Percentage of Respondents, Based on 4Q Results





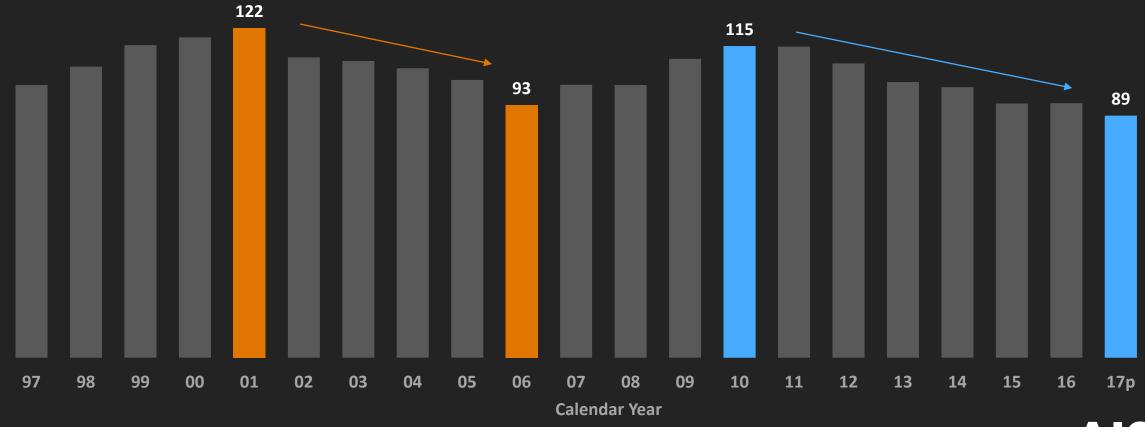
## WORKERS COMPENSATION RESULTS



#### WC Combined Ratio—Underwriting Gain Achieved

**Private Carriers** 

#### **Percent**



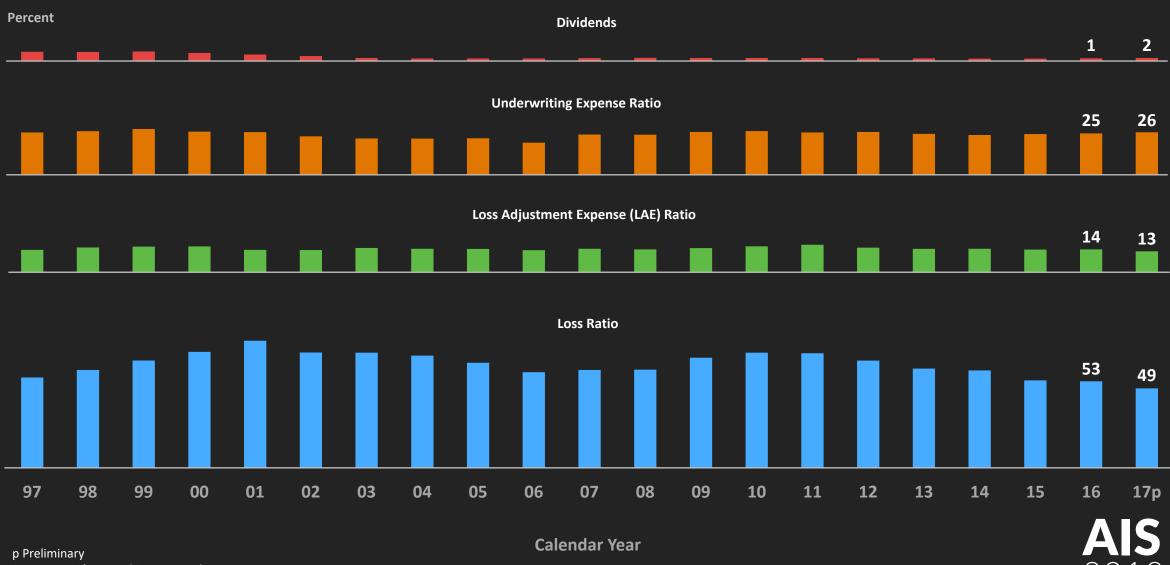
p Preliminary

Source: NAIC's Annual Statement data

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## WC Combined Ratio by Component

**Private Carriers** 



Source: NAIC's Annual Statement data

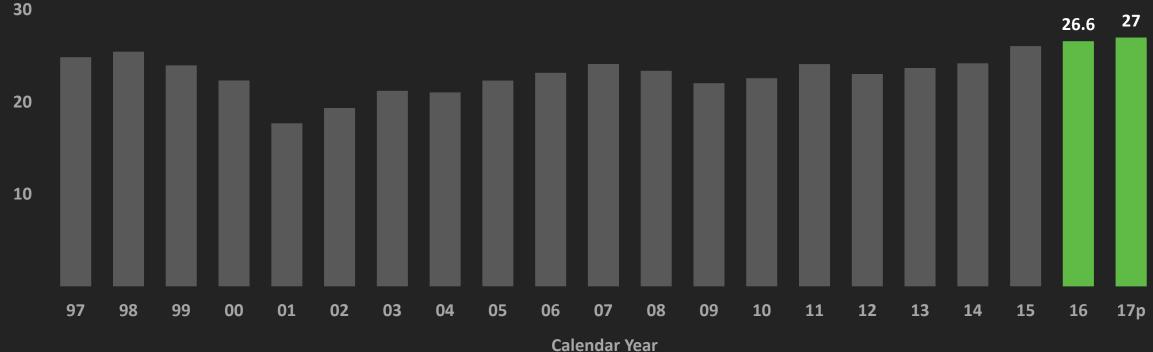
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#### WC LAE-to-Loss Ratio—Net Incurred LAE to Incurred Losses

#### **Private Carriers**

**Percent** 

40

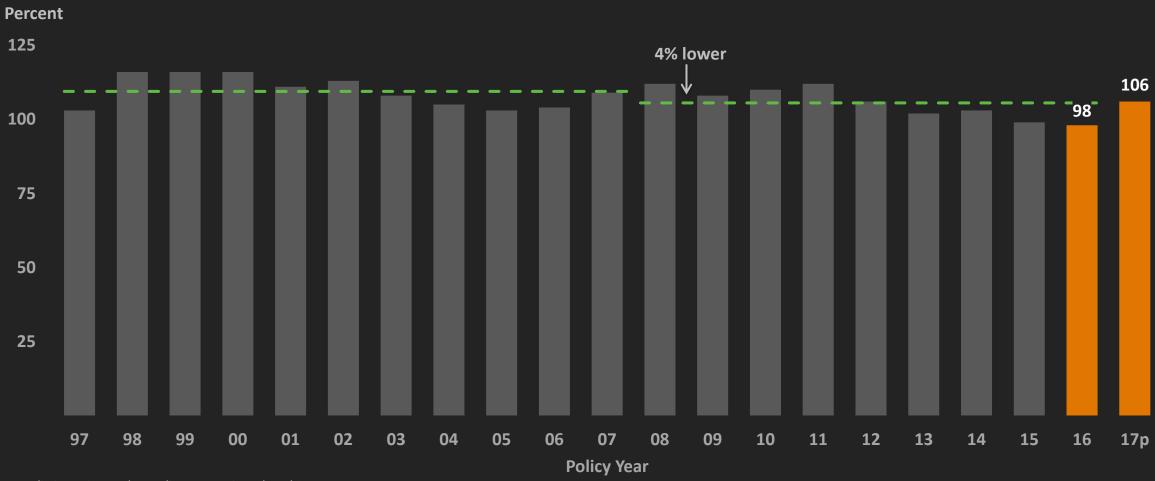


p Preliminary Source: NAIC's Annual Statement data LAE includes Defense and Cost Containment Expense plus Adjusting and Other Expense



#### WC Residual Market Combined Ratio

#### NCCI-Serviced WC Residual Market Pools



p Preliminary, incomplete policy year projected to ultimate
Includes Pool data and Plan expenses for pool members for all NCCI-serviced WC Residual Market Pool states, valued as of 12/31/2017
Tennessee Reinsurance Mechanism experience is not included in the combined ratios
Source: NCCI's *Residual Market Quarterly Results* 

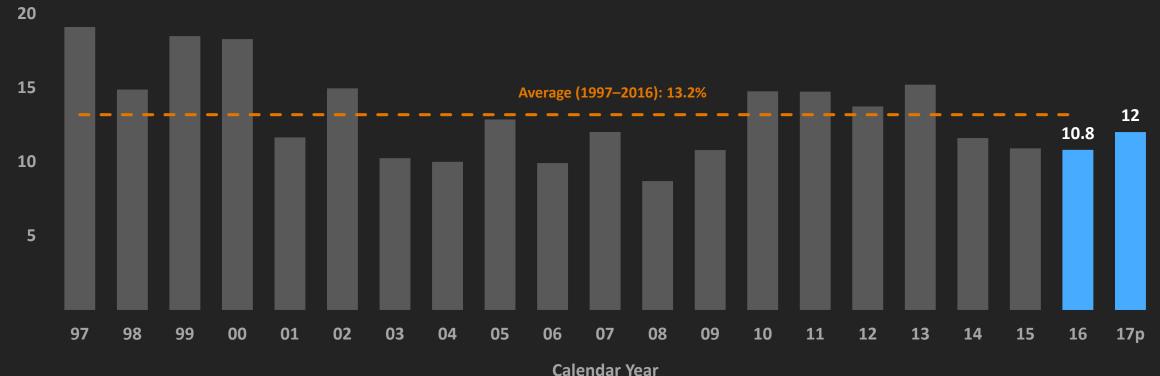


#### WC Investment Gain on Insurance Transactions

Ratio to Net Earned Premium, Private Carriers

**Percent** 

25



p Preliminary

Source: NAIC's Annual Statement data

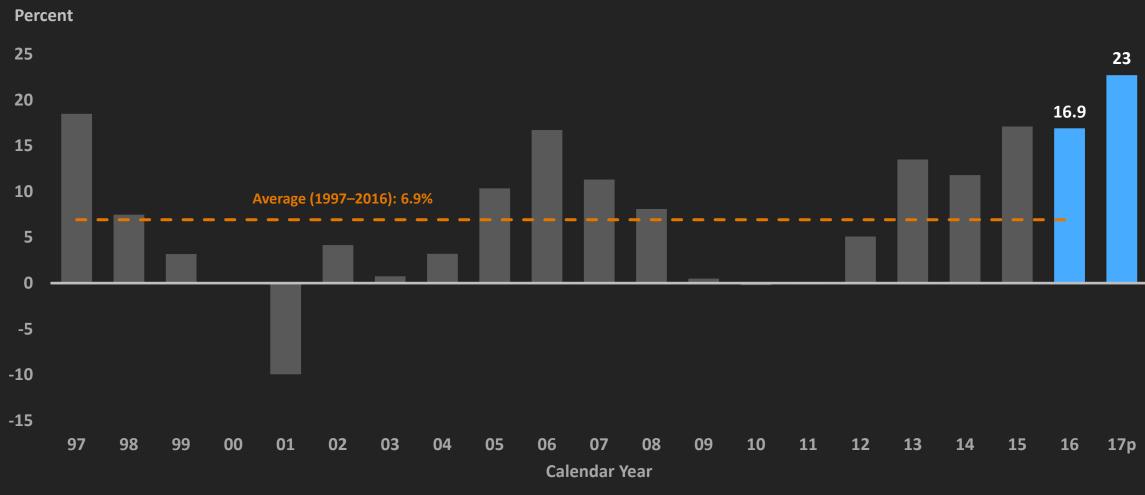
Investment Gain on Insurance Transactions includes Other Income

2013 is adjusted to exclude a material realized gain resulting from a single company transaction that involved corporate restructuring; unadjusted value is 19.4



#### WC Pretax Operating Gain

#### **Private Carriers**





Source: NAIC's Annual Statement data

Operating Gain equals 1.00 minus (Combined Ratio less Investment Gain on Insurance Transactions and Other Income)
2013 is adjusted to exclude a material realized gain resulting from a single company transaction that involved corporate restructuring; unadjusted value is 17.7

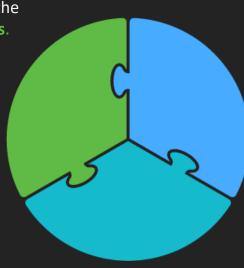


#### Social Security Disability Insurance and Workers Compensation

The idea of a "race to the bottom" is not borne out by the facts

#### Interaction of Coverages

Most states did not reduce WC benefits in the last 15 years.

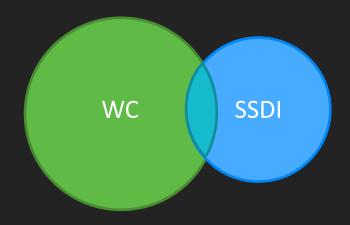


Observed increases in SSDI applications were impacted much more by the Great Recession than by WC benefit levels.

In states that did **lower WC** benefits, **SSDI applications** typically **decreased** following these reforms.

#### **Dual Recipients**

SSDI and WC work together to provide benefits to dual recipients. While workers receive dual benefits, WC generally shoulders the majority of the cost.



Cost shifting may serve to realign practices and/or to bring costs back in line with the original intent of a program, whether that program is WC, SSDI, or Medicare.

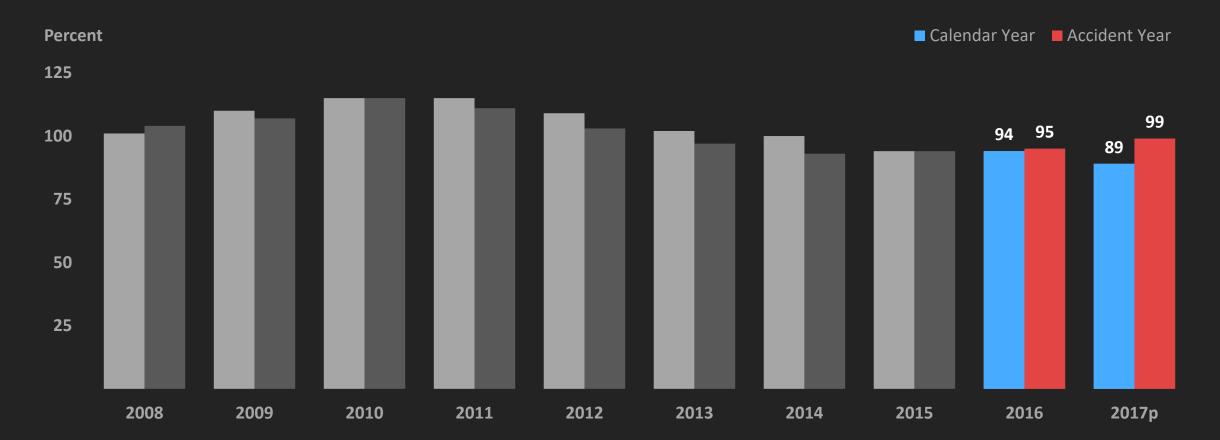


## WORKERS COMPENSATION ACCIDENT YEAR RESULTS AND RESERVE ESTIMATES



#### WC Net Combined Ratios— Calendar Year vs. Accident Year As Reported

**Private Carriers** 

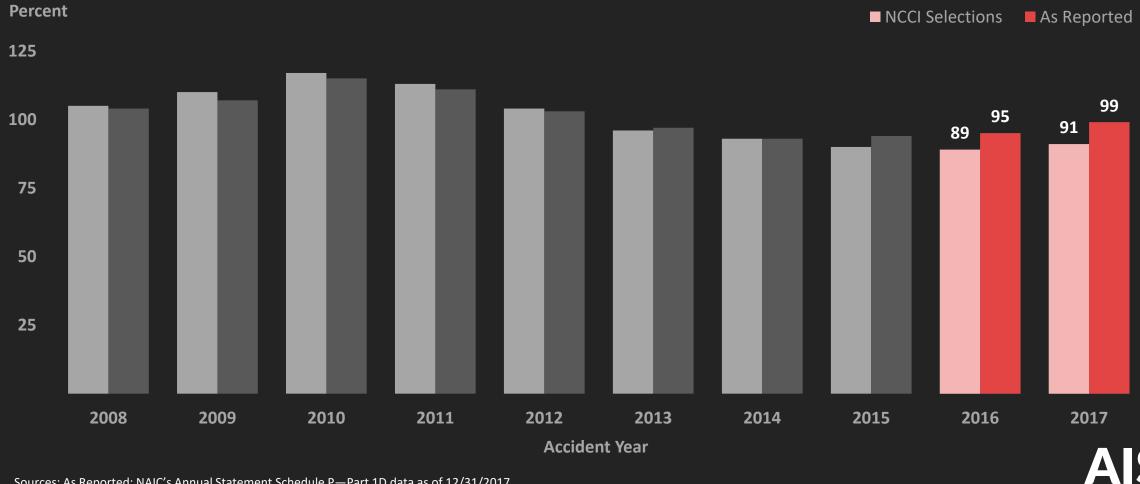


p Preliminary Source: NAIC's Annual Statement data Accident Year information is reported as of 12/31/2017 Includes dividends to policyholders



#### WC Net Combined Ratios— NCCI's Accident Year Selections vs. As Reported

Private Carriers

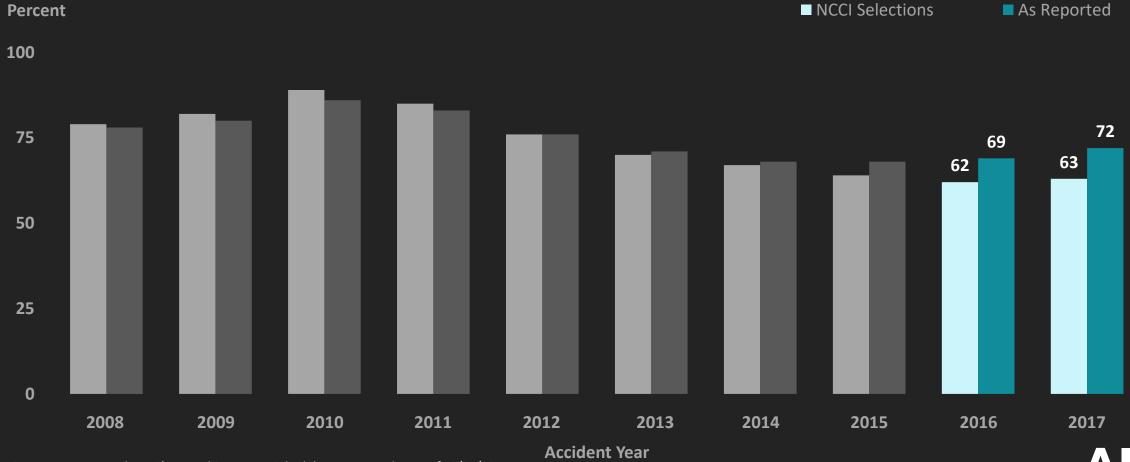


Sources: As Reported: NAIC's Annual Statement Schedule P—Part 1D data as of 12/31/2017 NCCI Selections: NCCI's analysis based on NAIC's Annual Statement data

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# WC Net Loss and LAE Ratios— NCCI's Accident Year Selections vs. As Reported

**Private Carriers** 



Sources: As Reported: NAIC's Annual Statement Schedule P—Part 1D data as of 12/31/2017

NCCI Selections: NCCI's analysis based on NAIC's Annual Statement data

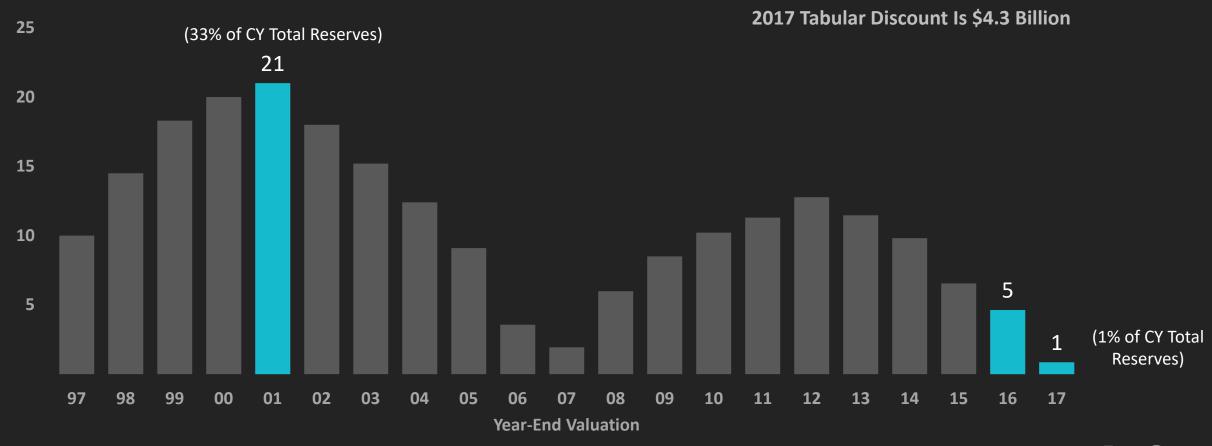
As Reported Loss and LAE ratios are net of tabular reserve discounts and gross of nontabular reserve discounts

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#### WC Net Loss and LAE Reserve Deficiencies

#### **Private Carriers**



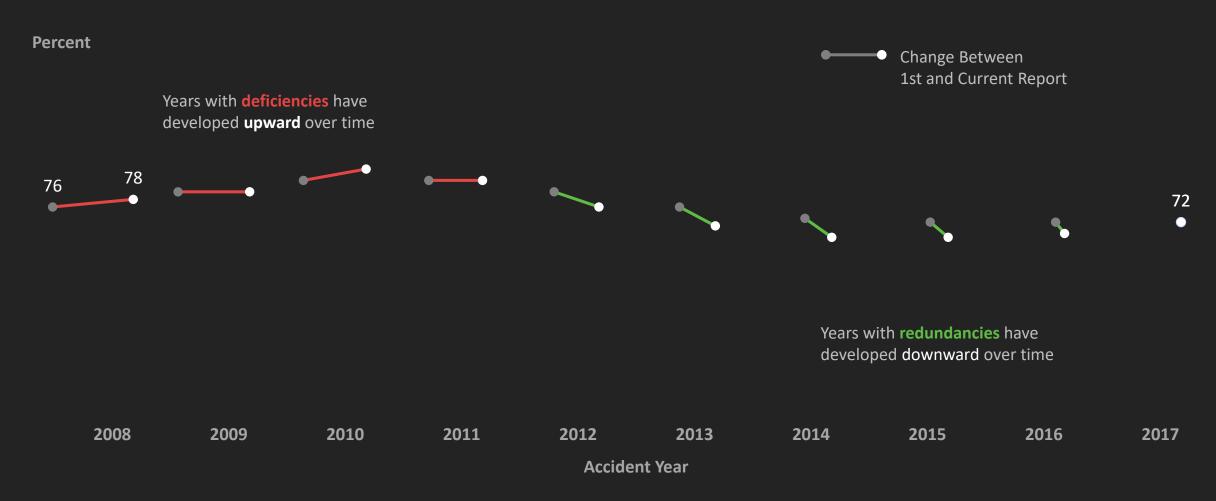


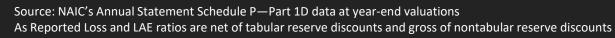
Source: NCCI's analysis based on NAIC's Annual Statement Schedule P—Part 1D data at year-end valuations Considers all reserve discounts as deficiencies



#### Emergence of Reported WC Net Loss and LAE Ratios

**Private Carriers** 





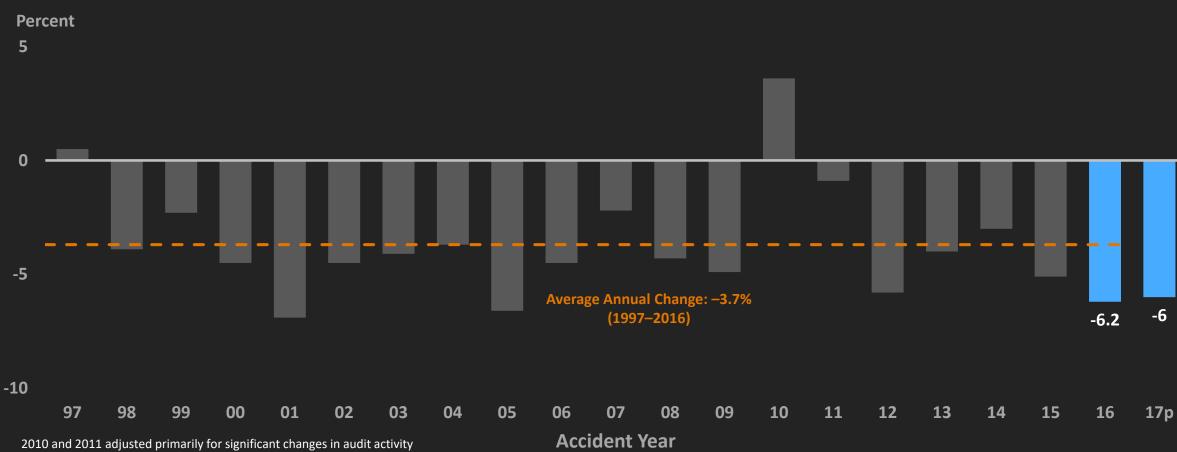


# WORKERS COMPENSATION LOSS DRIVERS



#### WC Lost-Time Claim Frequency

Claims per \$1M Pure Premium, Private Carriers and State Funds—NCCI States



p Preliminary, based on data valued as of 12/31/2017

Source: NCCI's Financial Call data, developed to ultimate, premium adjusted to current wage and voluntary pure premium level, excludes high-deductible policies; based on data through 12/31/2016

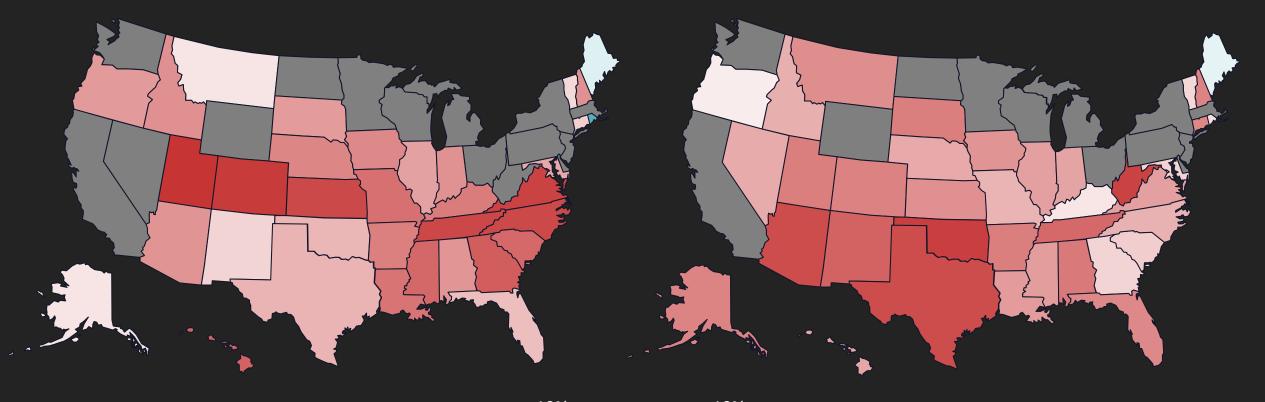
Values displayed reflect the methodology underlying the most recent rate/loss cost filing Includes all states where NCCI provides ratemaking services; WV is excluded through 2011



## WC Lost-Time Claim Frequency



#### Average Annual Change 2012–2016



-10% +10%

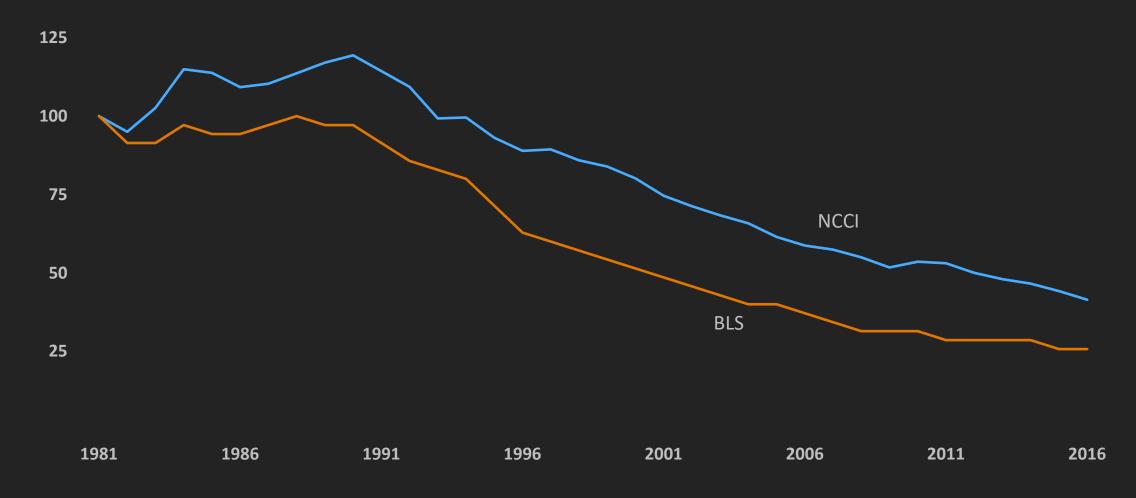
Source: NCCI's Financial Call data, developed to ultimate, premium adjusted to current wage and voluntary pure premium level, excludes high-deductible policies; based on data through 12/31/2016

Values displayed reflect the methodology underlying the most recent rate/loss cost filing Includes all states where NCCI provides ratemaking services



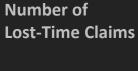
## NCCI and BLS Measures of Lost-Time Claim Frequency

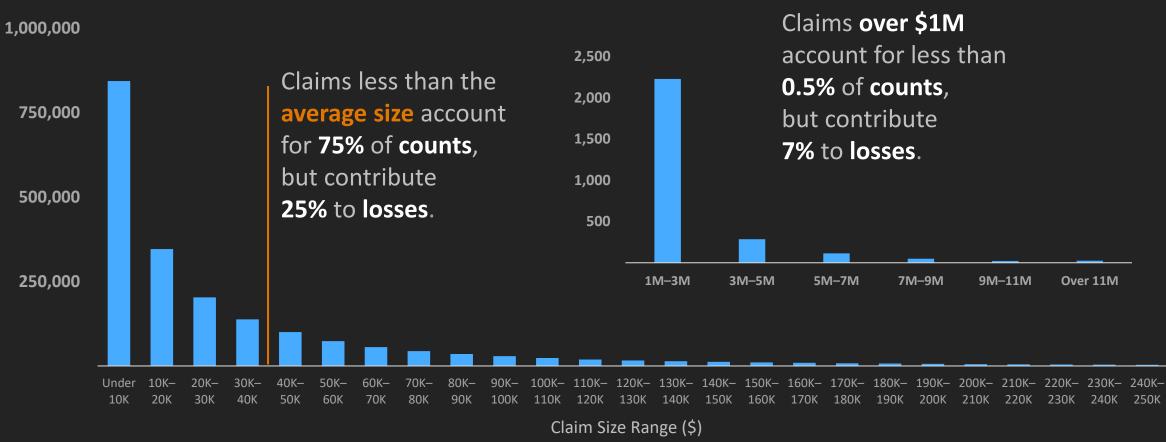
Index 1981 = 100

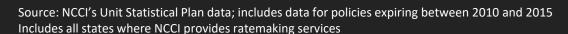




#### Distribution of Lost-Time Claims by Size



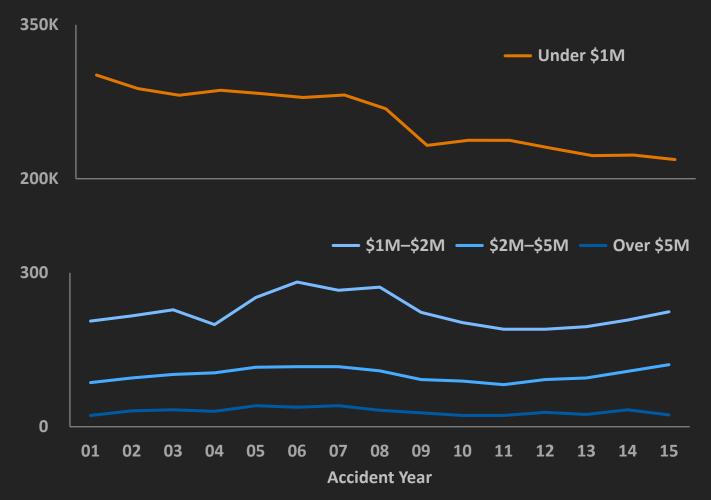






#### Changes in Lost-Time Claims by Size

Number of Lost-Time Claims



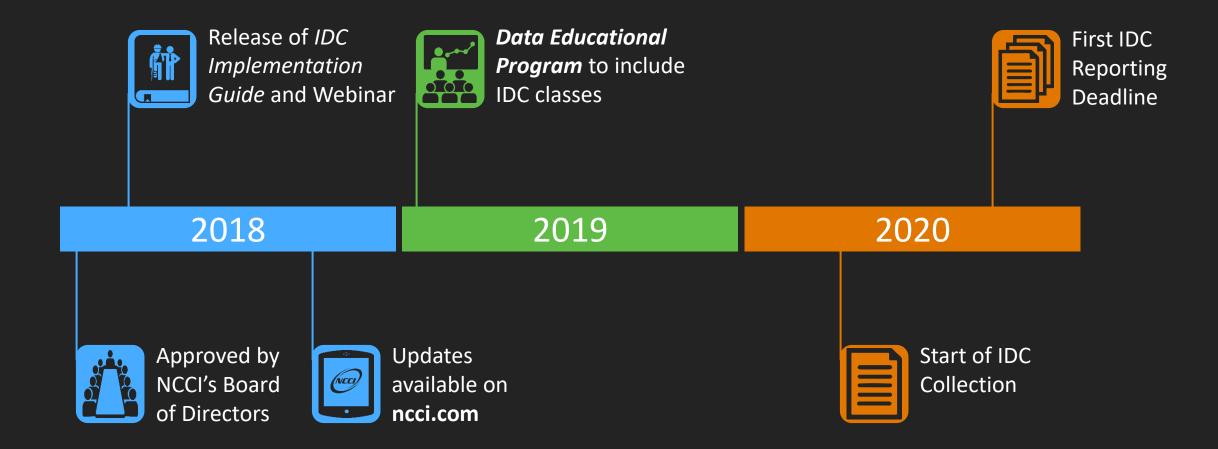
Over the last 15 years, the number of claims under \$1M has continued to decline, while the observed changes in larger claim sizes have been relatively more volatile

Source: NCCI's Financial Call data at 2nd report by Accident Year Includes all states where NCCI provides ratemaking services, excluding TX and WV



## Indemnity Data Call (IDC)

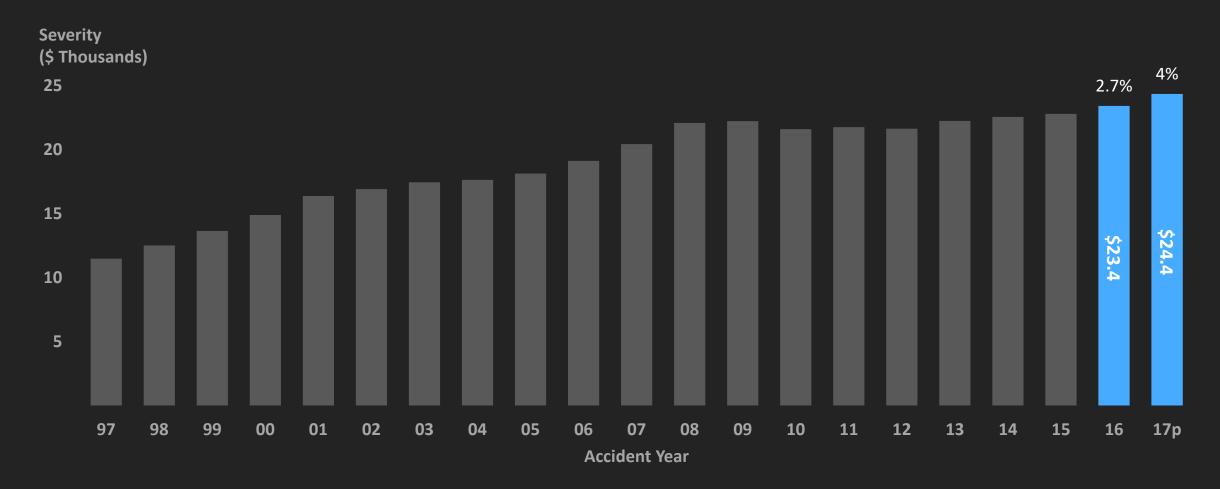
Implementation Timeline

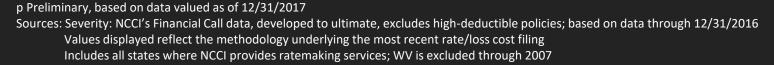




#### WC Average Indemnity Claim Severity

Private Carriers and State Funds—NCCI States

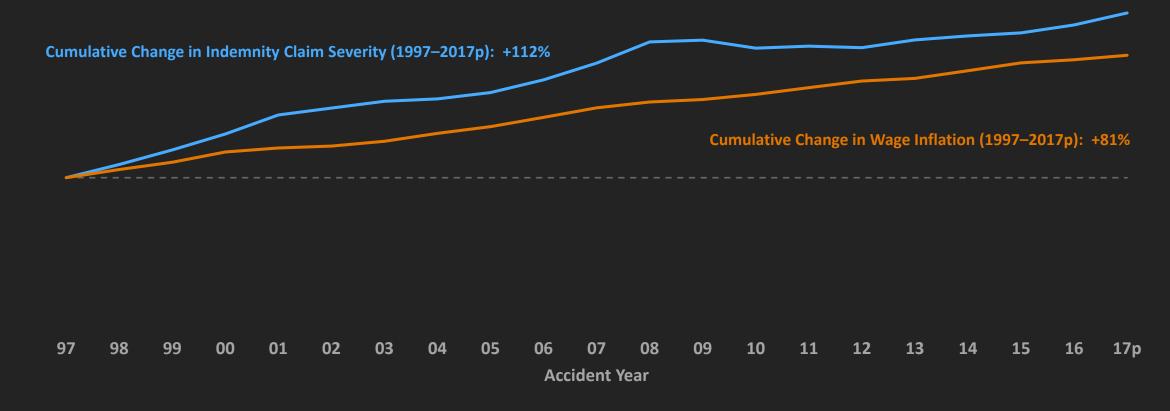






#### WC Average Indemnity Claim Severity

Private Carriers and State Funds—NCCI States



p Preliminary, based on data valued as of 12/31/2017

Sources: Severity: NCCI's Financial Call data, developed to ultimate, excludes high-deductible policies; based on data through 12/31/2016

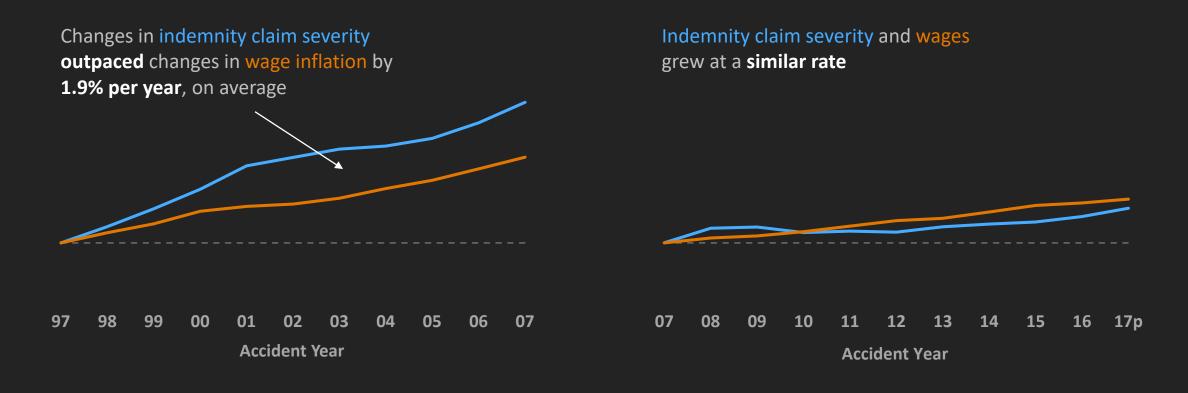
Values displayed reflect the methodology underlying the most recent rate/loss cost filing Includes all states where NCCI provides ratemaking services; WV is excluded through 2007

US Average Weekly Wage: 1997–2007 and 2012–2016 Quarterly Census of Employment and Wages; 2008–2011 NCCI and BLS; 2017p NCCI and Moody's Analytics



#### Relative Growth Rates—Indemnity Severity vs. Wage Inflation

Private Carriers and State Funds—NCCI States



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p Preliminary, based on data valued as of 12/31/2017

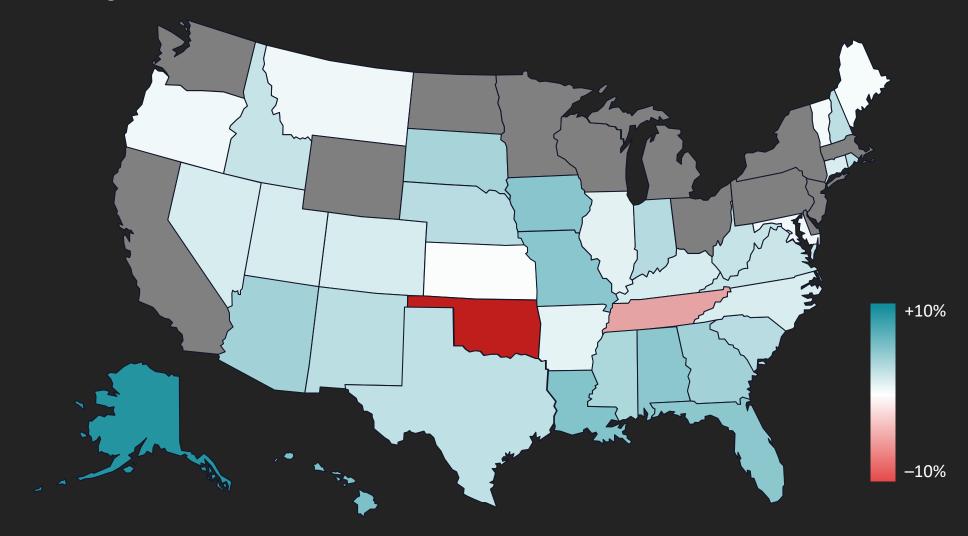
Sources: Severity: NCCI's Financial Call data, developed to ultimate, excludes high-deductible policies; based on data through 12/31/2016

US Average Weekly Wage: 1997–2007 and 2012–2016 Quarterly Census of Employment and Wages; 2008–2011 NCCI and BLS; 2017p NCCI and Moody's Analytics

Values displayed reflect the methodology underlying the most recent rate/loss cost filing Includes all states where NCCI provides ratemaking services; WV is excluded through 2007

#### WC Average Indemnity Claim Severity

Average Annual Change 2012–2016, Private Carriers and State Funds—NCCI States

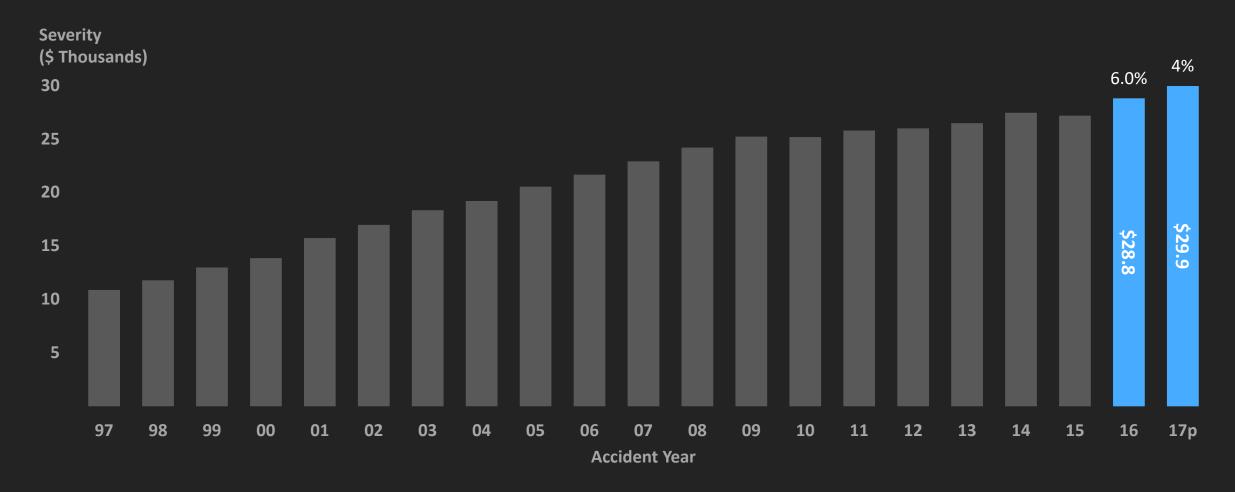


Source: NCCI's Financial Call data, developed to ultimate, excludes high-deductible policies; based on data through 12/31/2016 Values displayed reflect the methodology underlying the most recent rate/loss cost filing Includes all states where NCCI provides ratemaking services



## WC Average Medical Lost-Time Claim Severity

Private Carriers and State Funds—NCCI States

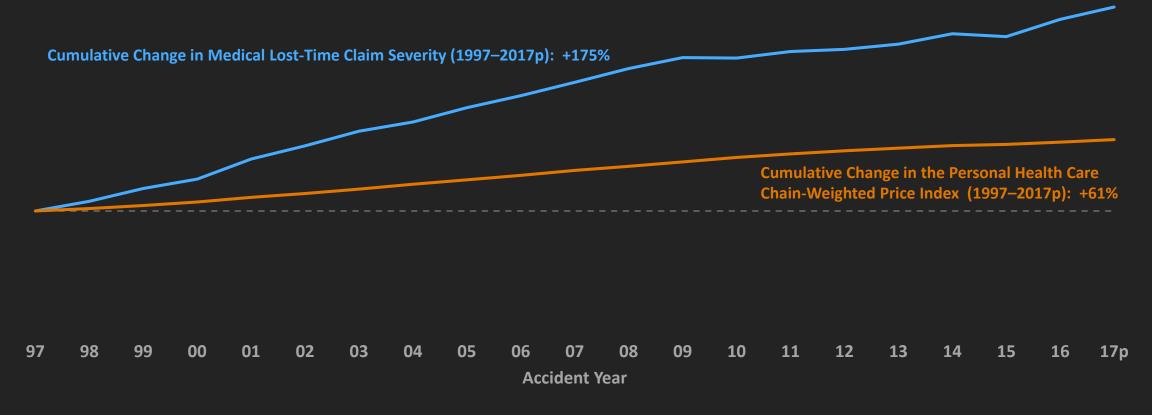


p Preliminary, based on data valued as of 12/31/2017
Source: NCCI's Financial Call data, developed to ultimate, excludes high-deductible policies; based on data through 12/31/2016
Values displayed reflect the methodology underlying the most recent rate/loss cost filing
Includes all states where NCCI provides ratemaking services; WV is excluded through 2007



#### WC Average Medical Lost-Time Claim Severity

Private Carriers and State Funds—NCCI States



p Preliminary, based on data valued as of 12/31/2017

Sources: Severity: NCCI's Financial Call data, developed to ultimate, excludes high-deductible policies; based on data through 12/31/2016

Values displayed reflect the methodology underlying the most recent rate/loss cost filing

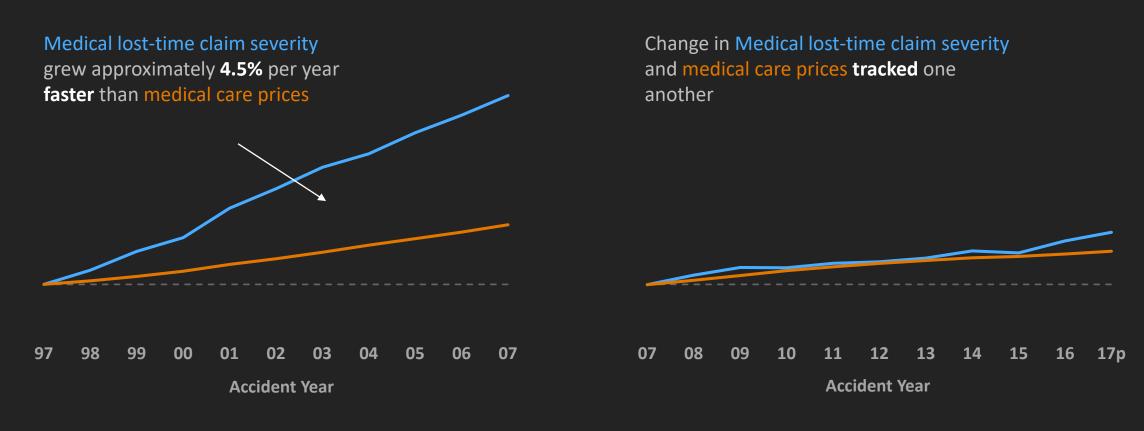
Includes all states where NCCI provides ratemaking services; WV is excluded through 2007

Personal Health Care (PHC) Chain-Weighted Price Index: Centers for Medicare & Medicaid Services



#### Relative Growth Rates—Medical Severity vs. Price Inflation

Private Carriers and State Funds—NCCI States



p Preliminary, based on data valued as of 12/31/2017

Sources: Severity: NCCI's Financial Call data, developed to ultimate, excludes high-deductible policies; based on data through 12/31/2016

Values displayed reflect the methodology underlying the most recent rate/loss cost filing

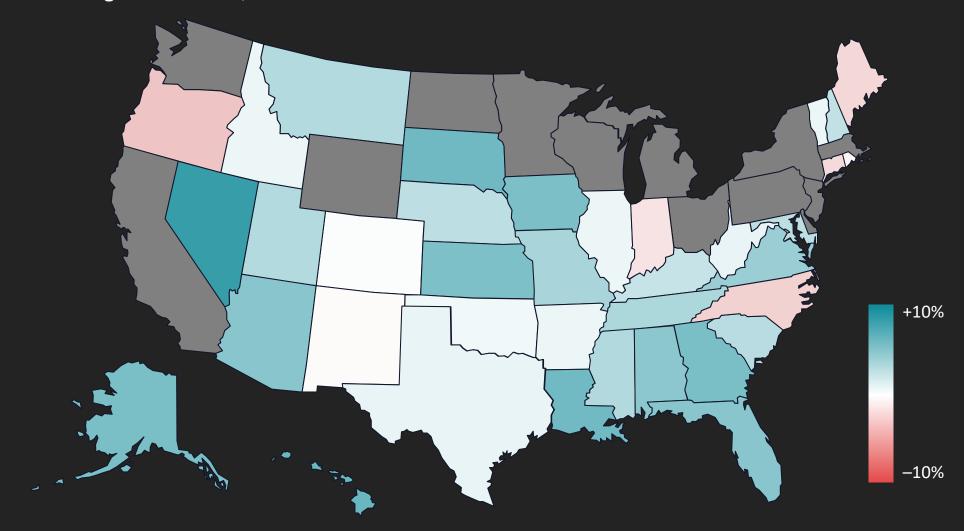
Includes all states where NCCI provides ratemaking services; WV is excluded through 2007

Personal Health Care (PHC) Chain-Weighted Price Index: Centers for Medicare & Medicaid Services



## WC Average Medical Lost-Time Claim Severity

Average Annual Change 2012–2016, Private Carriers and State Funds—NCCI States



Source: NCCI's Financial Call data, developed to ultimate, excludes high-deductible policies; based on data through 12/31/2016 Values displayed reflect the methodology underlying the most recent rate/loss cost filing Includes all states where NCCI provides ratemaking services

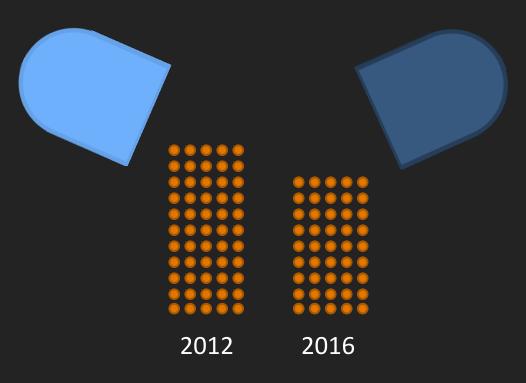


#### **Utilization of Opioids**

The Decline in Prescribed Opioids in Workers Compensation

In **2012**, approximately **55%** of WC claimants with a prescription were prescribed an **opioid** 

By **2016**, that share **decreased** to about **45**%





## Workers Compensation Summary

#### On One Hand

- Investment income remained below the long-term average
- Loss costs continued to decrease
- Net written premium for private carriers declined slightly
- Lost-time claim frequency fell again

#### On the Other Hand

- Combined ratio improved to the lowest level in over half a century
- Payroll continued to increase
- Reserve position continued to strengthen
- Severity increases remained moderate



## WHAT'S NEXT?

#### RESEARCH

Opioids—Killer Pain Relief

Marijuana—The Move to Schedule II

Impact of Provider Networks on Workers Compensation Medical Costs

#### ncci.com

**Indemnity Data Call Implementation** 

Aggregate Loss Factors (ALF) on Demand

WC Motor Vehicle Accident Research



## QUESTIONS AND MORE INFORMATION

#### **MEET THE EXPERTS**

Immediately following this session

# RESOURCES FOR THE STATE OF THE LINE PRESENTATION

Full presentation on ncci.com

State of the Line Guide on ncci.com

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