

Workers Compensation State of the Line

Jeff Eddinger, FCAS, MAAA

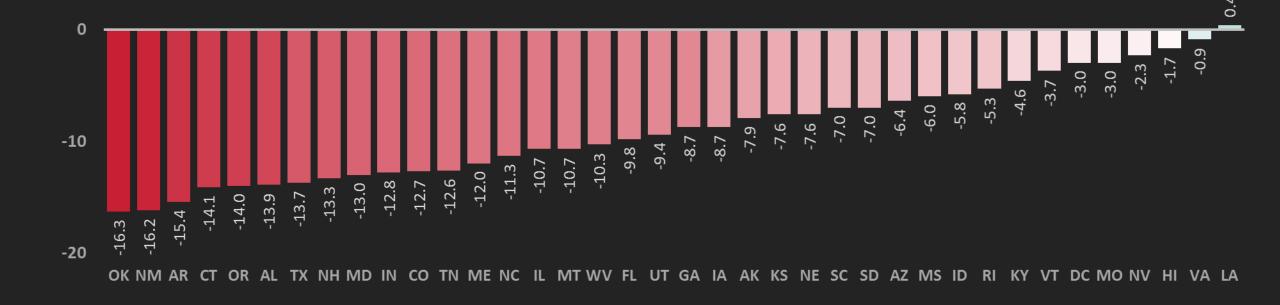
July 13, 2018

Most Recent Changes in Bureau Premium Level

Voluntary Market, Excludes Law-Only Filings

Percent

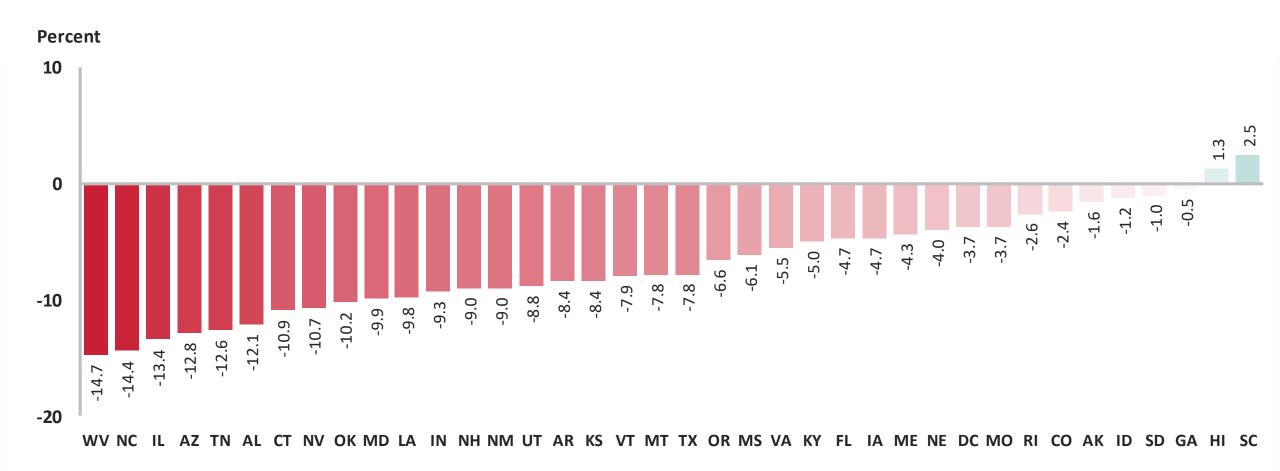
10



Premium level changes in advisory rates, loss costs, and rating values, as of 5/10/2018, as filed by the applicable rating organization, relative to those previously approved IN and NC are filed in cooperation with state rating bureaus

Prior Year Changes in Bureau Premium Level

Voluntary Market, Excludes Law-Only Filings



Premium level changes are approved or filed and pending changes in advisory rates, loss costs, and rating values, as of 5/12/2017, as filed by the applicable rating organization, relative to those previously approved

IN and NC are filed in cooperation with state rating bureaus

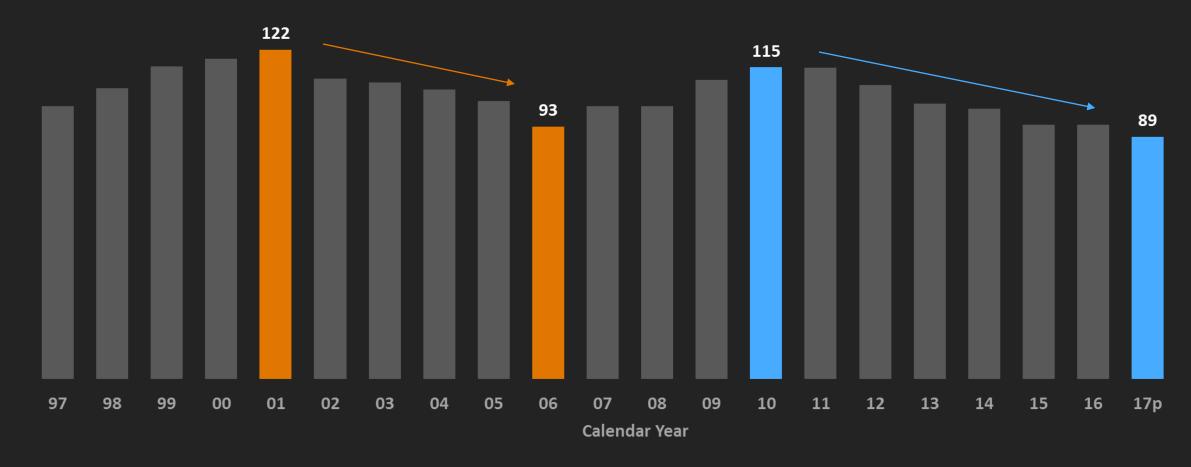


WORKERS COMPENSATION RESULTS

WC Combined Ratio—Underwriting Gain Achieved

Private Carriers

Percent

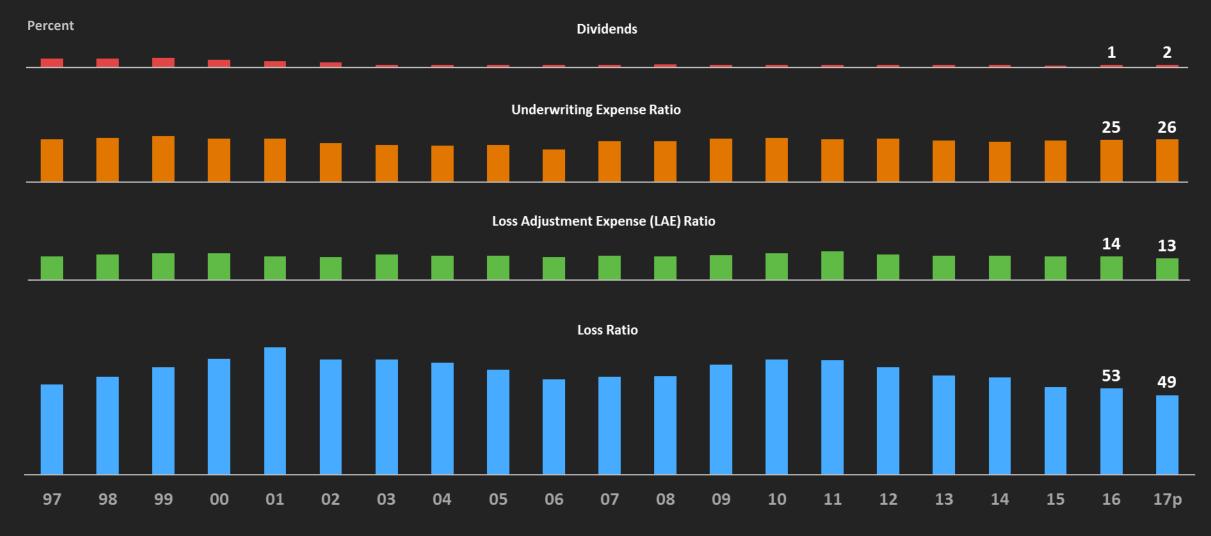


p Preliminary

Source: NAIC's Annual Statement data

WC Combined Ratio by Component

Private Carriers



Calendar Year

p Preliminary

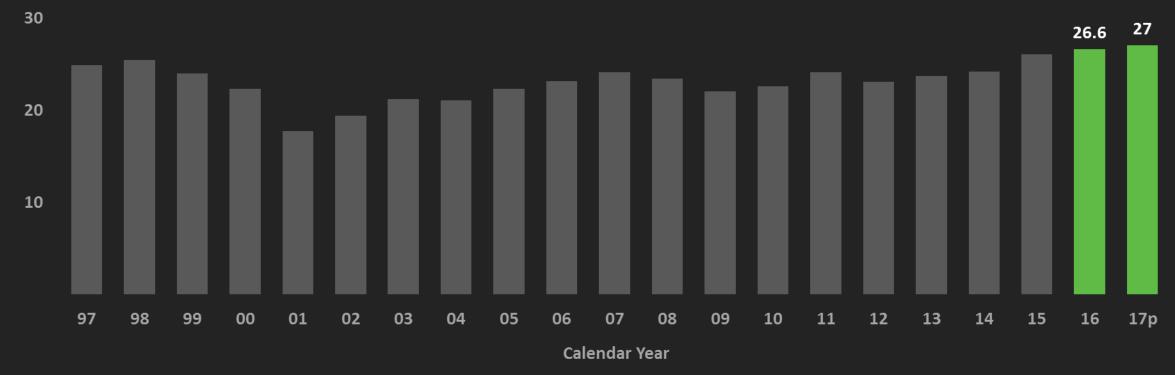
Source: NAIC's Annual Statement data

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

Private Carriers

Percent

40



p Preliminary

Source: NAIC's Annual Statement data

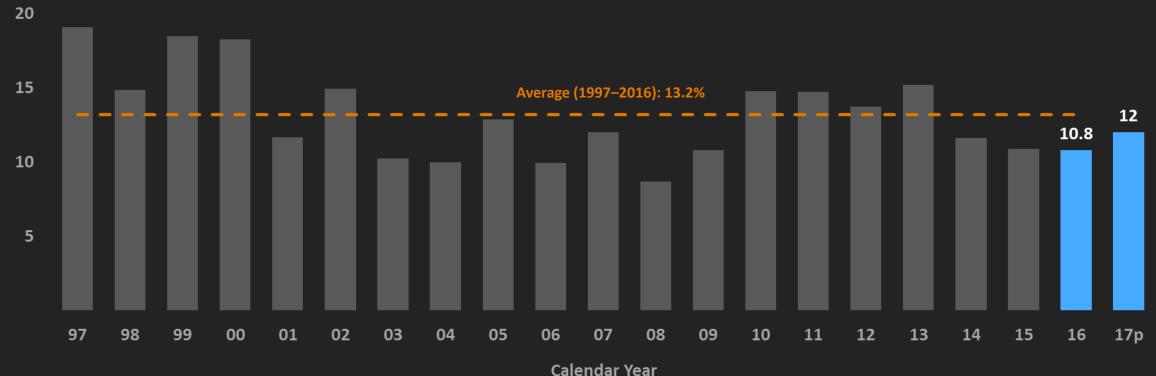
LAE includes Defense and Cost Containment Expense plus Adjusting and Other Expense

WC Investment Gain on Insurance Transactions

Ratio to Net Earned Premium, Private Carriers

Percent

25



p Preliminary

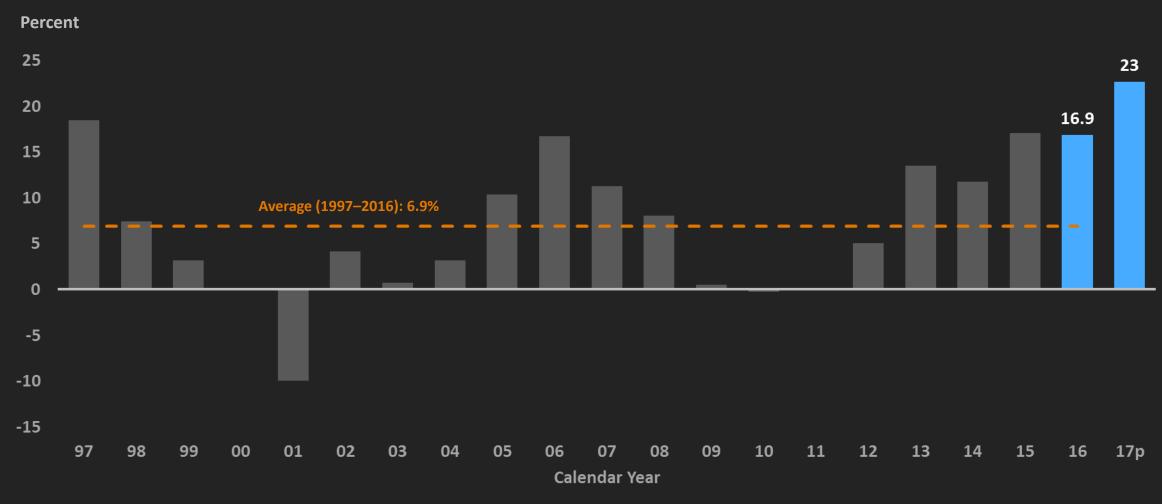
Source: NAIC's Annual Statement data

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



p Preliminary

Source: NAIC's Annual Statement data

Operating Gain equals 1.00 minus (Combined Ratio less Investment Gain on Insurance Transactions and Other Income)

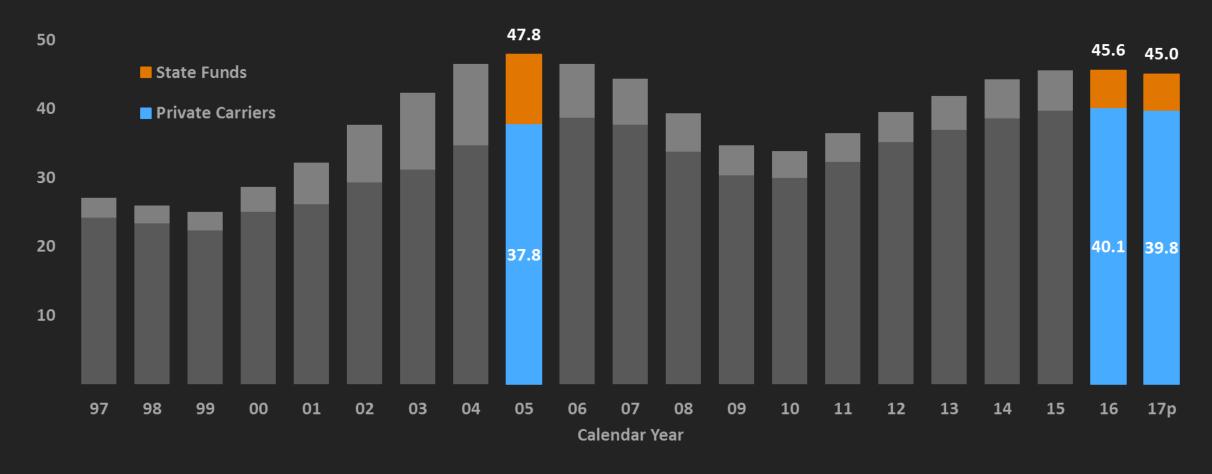
2013 is adjusted to exclude a material realized gain resulting from a single company transaction that involved corporate restructuring; unadjusted value is 17.7

WORKERS COMPENSATION PREMIUM DRIVERS

WC Net Written Premium

Private Carriers and State Funds

\$ Billions

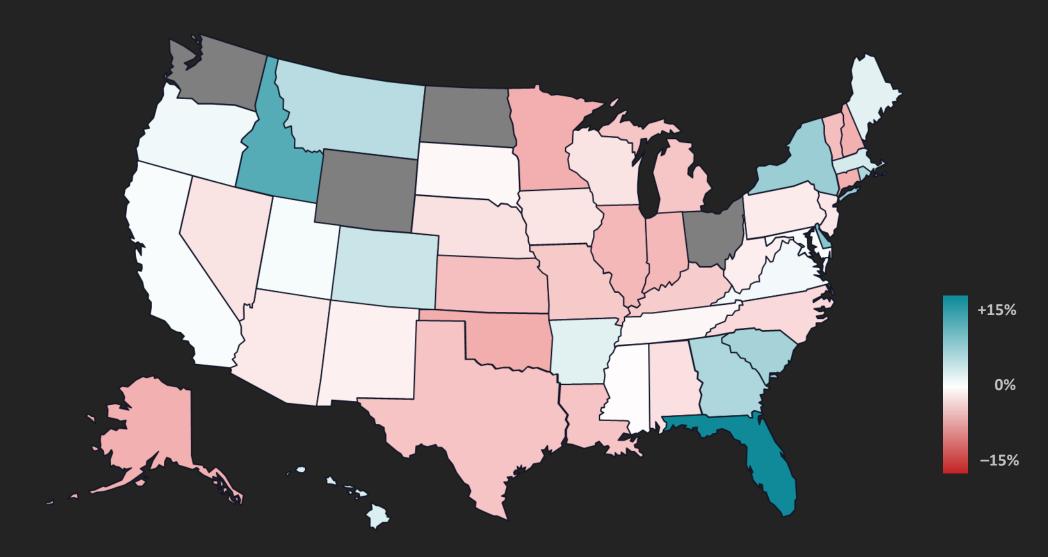


p Preliminary

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

WC Direct Written Premium Change—2017

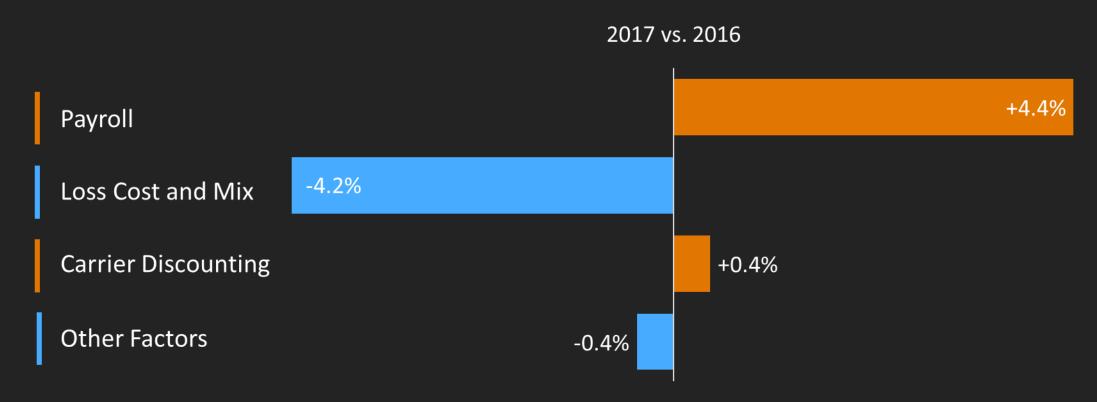
Private Carriers



WC Direct Written Premium Change by Component

Private Carriers—NCCI States

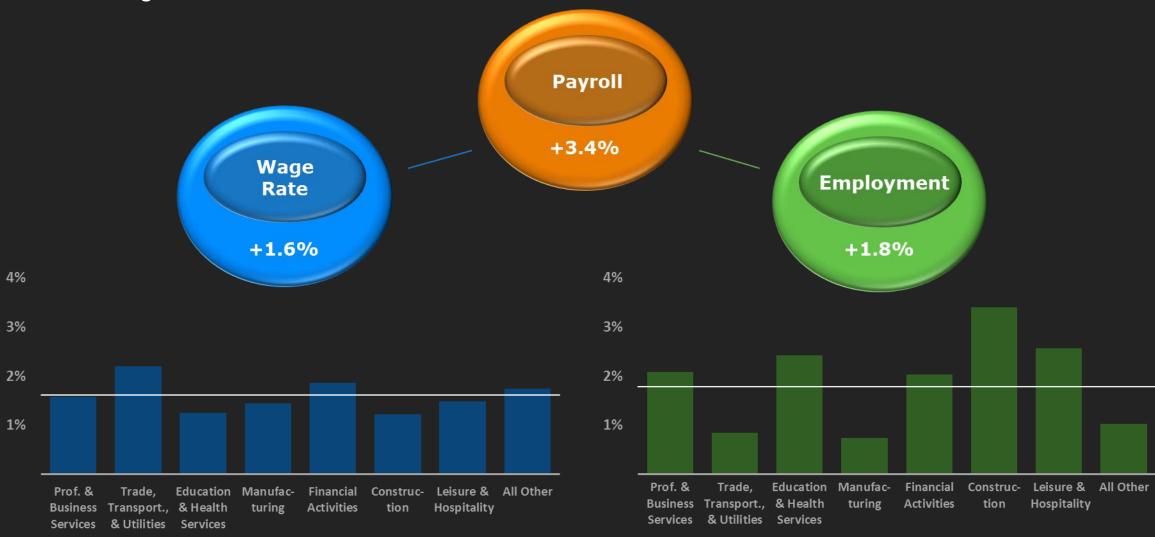
Change in Direct Written Premium: 0.0%



Sources: Direct Written Premium Change: NAIC's Annual Statement Statutory Page 14 for all states where NCCI provides ratemaking services Components: NCCI's Policy data

Increases in Payroll Continue to Drive Changes in Premium

Forecast Change 2016–2017



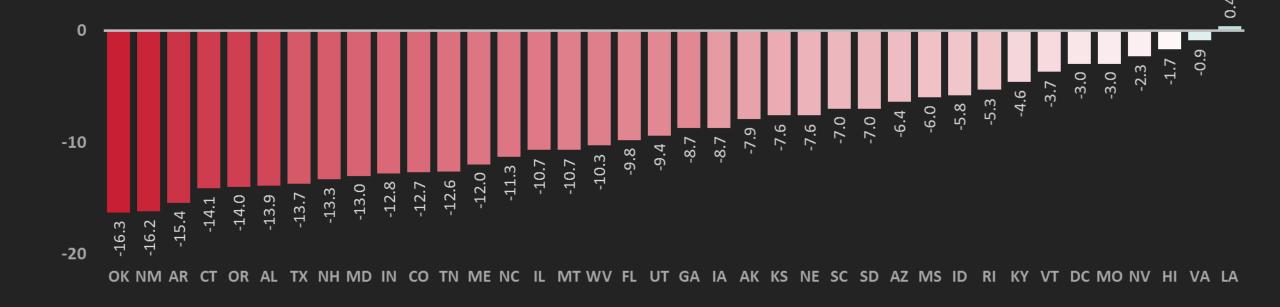
Sources: Moody's Analytics and NCCI

Most Recent Changes in Bureau Premium Level

Voluntary Market, Excludes Law-Only Filings

Percent

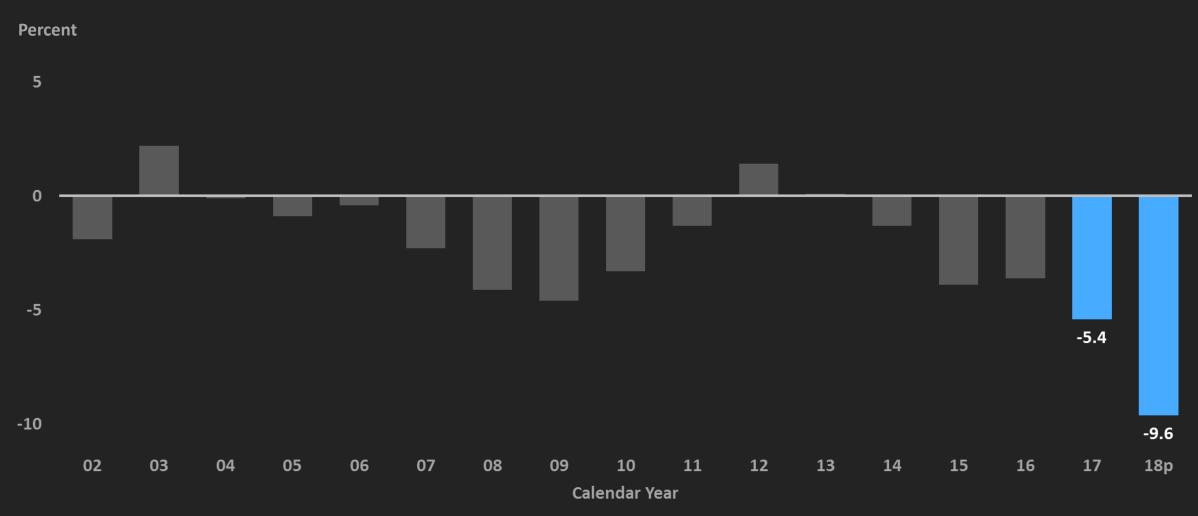
10



Premium level changes in advisory rates, loss costs, and rating values, as of 5/10/2018, as filed by the applicable rating organization, relative to those previously approved IN and NC are filed in cooperation with state rating bureaus

WC Approved Changes in Bureau Premium Level

Weighted by Effective Date—NCCI States



p Preliminary

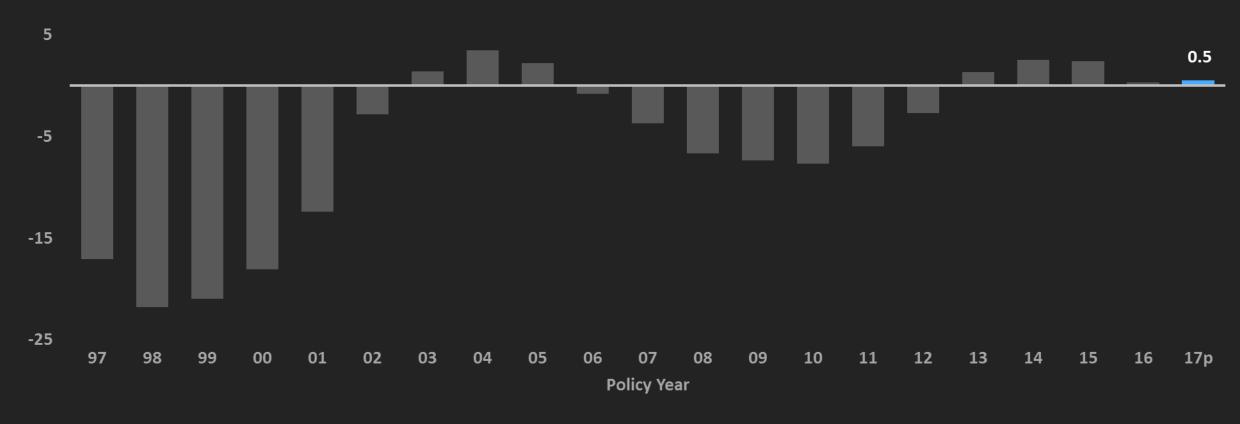
Source: NAIC's Annual Statement Statutory Page 14

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

WC Impact of Discounting on Premium

Private Carriers—NCCI States

Percent

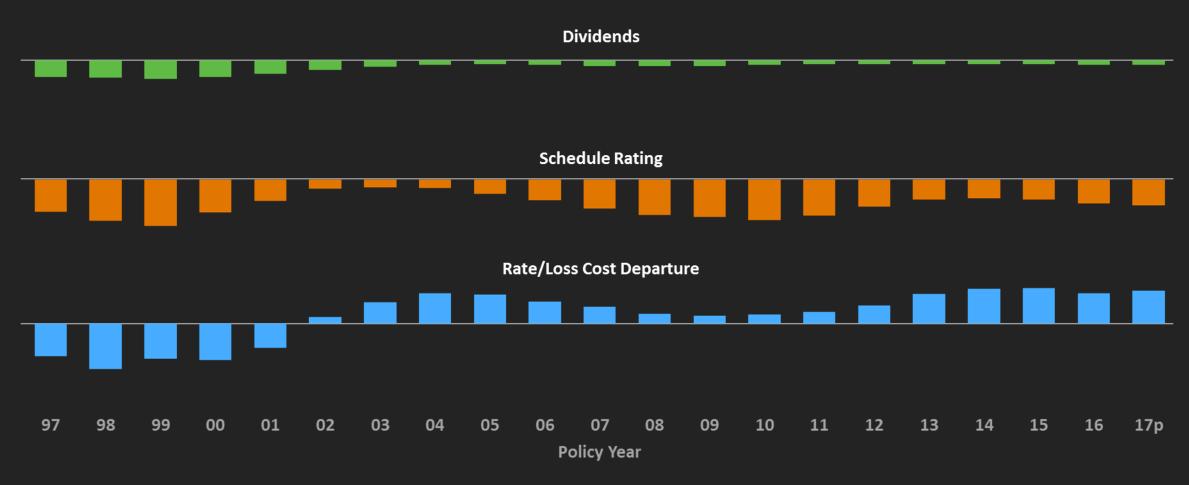


p Preliminary

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

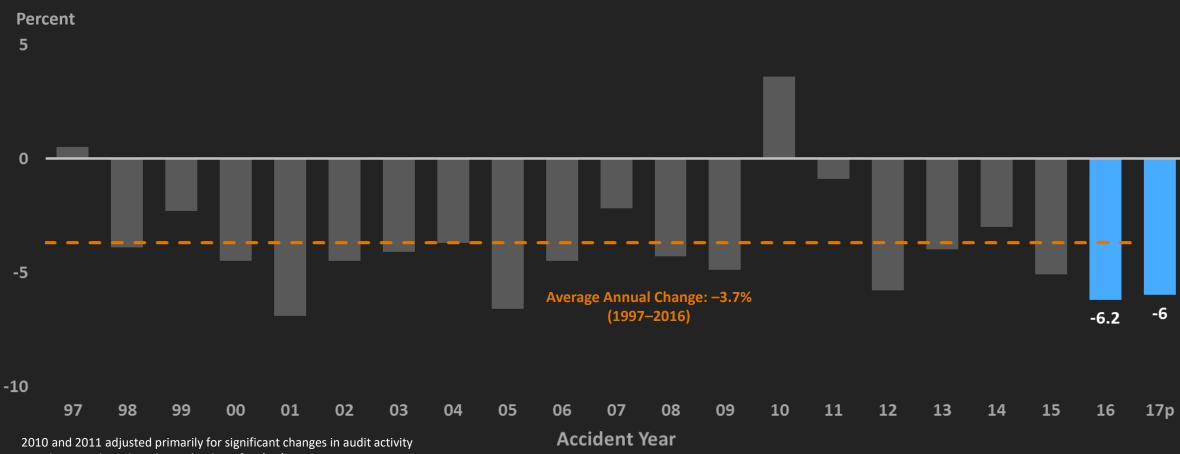
Rate/loss cost departure reflects carrier departure from NCCI rate level, which excludes a profit and contingency provision and expense constant

Based on data for all states where NCCI provides ratemaking services, excluding TX

WORKERS COMPENSATION LOSS DRIVERS

WC Lost-Time Claim Frequency

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

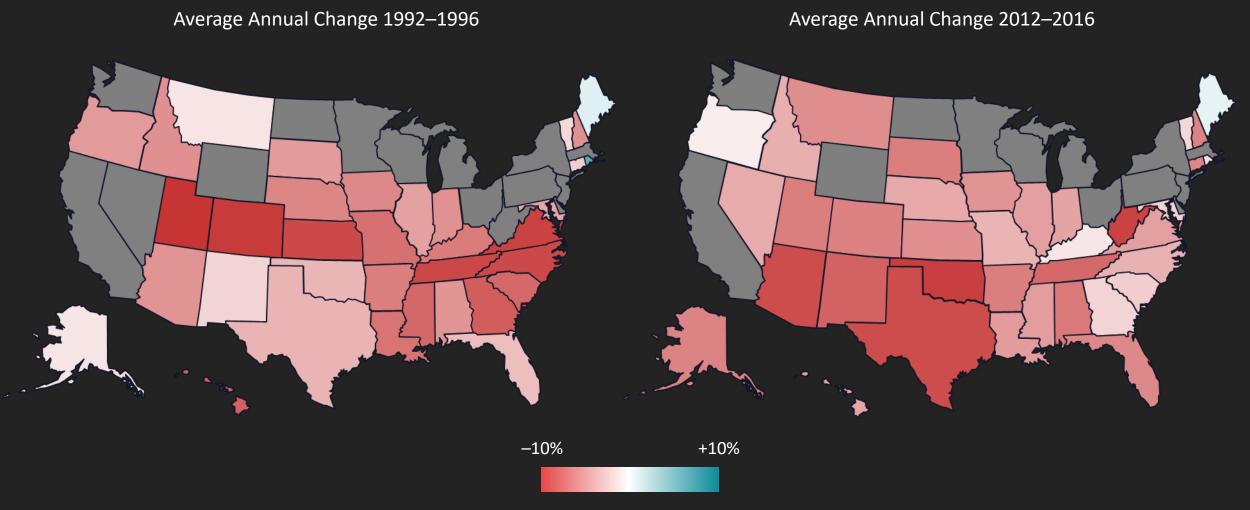


p Preliminary, based on data valued as of 12/31/2017

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

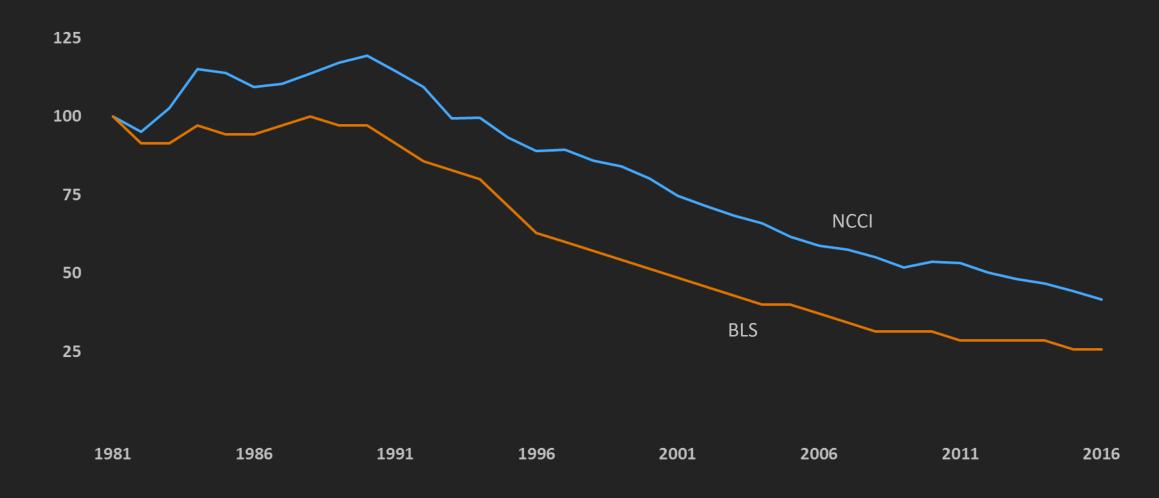


Source: NCCI's Financial Call data, developed to ultimate, premium adjusted to current wage and voluntary pure premium level, excludes high-deductible policies; based on data through 12/31/2016

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

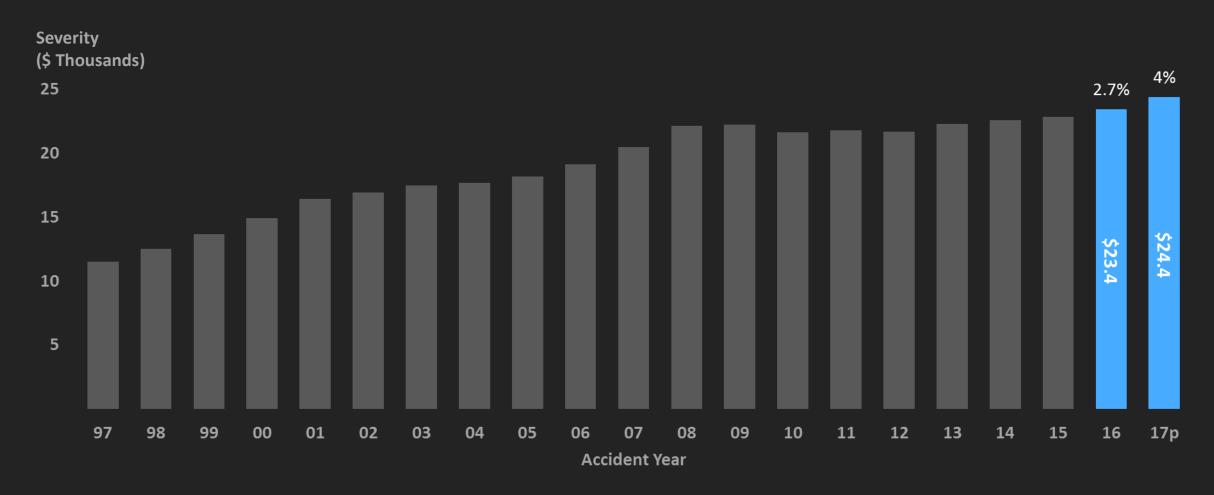


Sources: US Bureau of Labor Statistics (BLS); incidence rate for total private industry; injury and illness cases involving days away from work

NCCI's Frequency and Severity Analyses; lost-time claims based on the states where NCCI provides ratemaking services, including state funds; excludes high-deductible policies

WC Average Indemnity Claim Severity

Private Carriers and State Funds—NCCI States

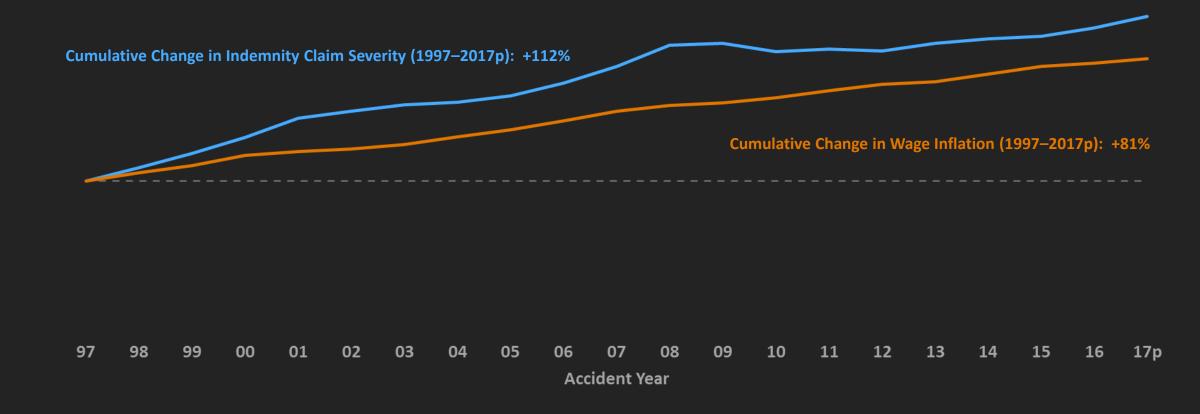


p Preliminary, based on data valued as of 12/31/2017

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

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, develope

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

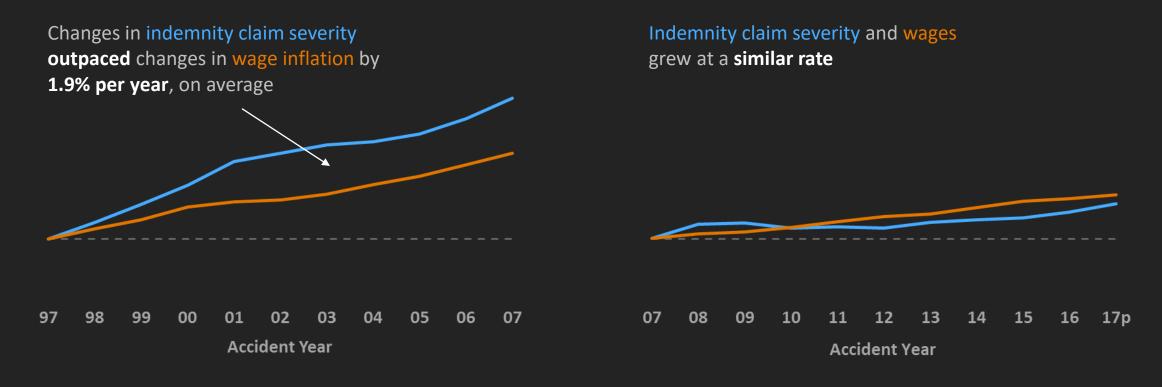
Values displayed reflect the methodology underlying the most recent rate/loss cost filing

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



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

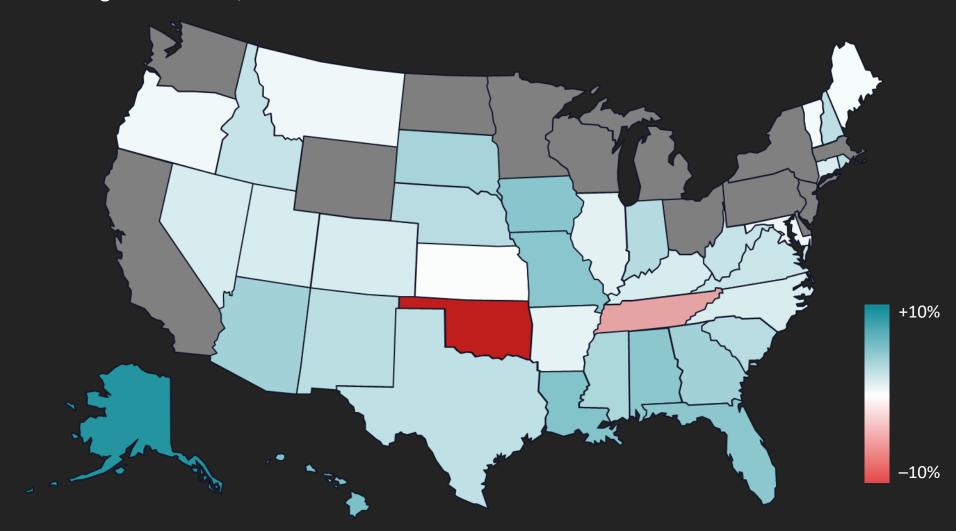
Values displayed reflect the methodology underlying the most recent rate/loss cost filing

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

WC Average Indemnity Claim Severity

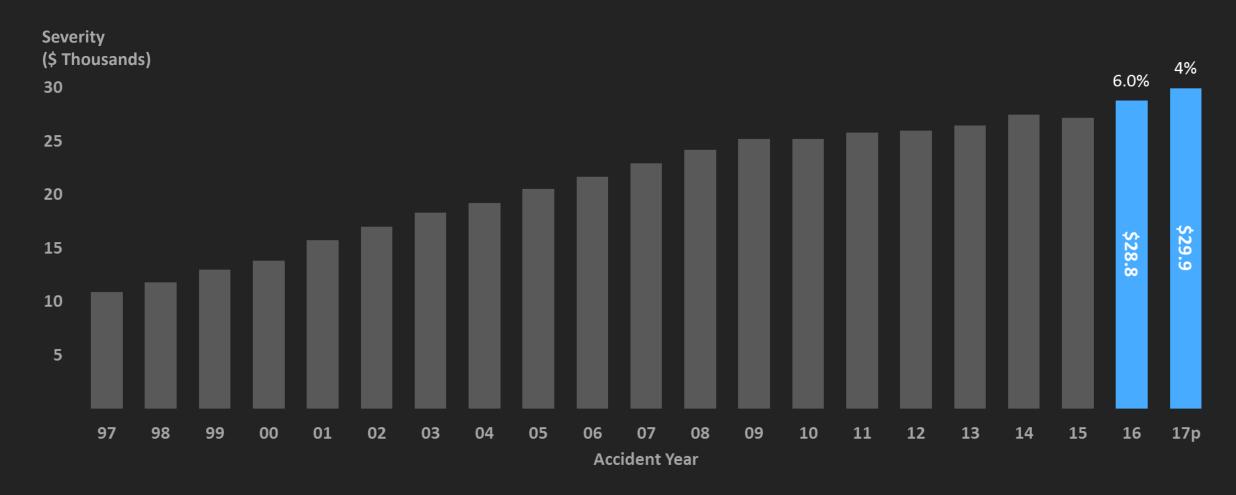
Average Annual Change 2012–2016, Private Carriers and State Funds—NCCI States



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

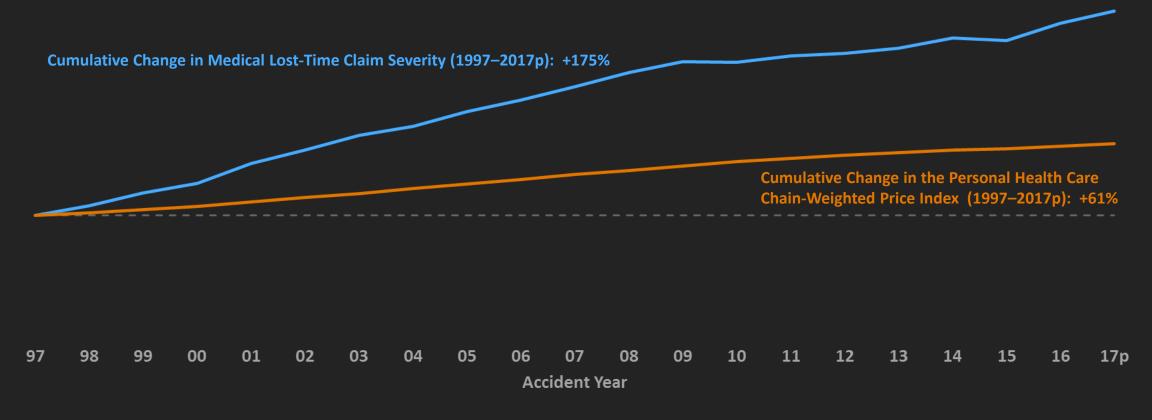
Private Carriers and State Funds—NCCI States



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

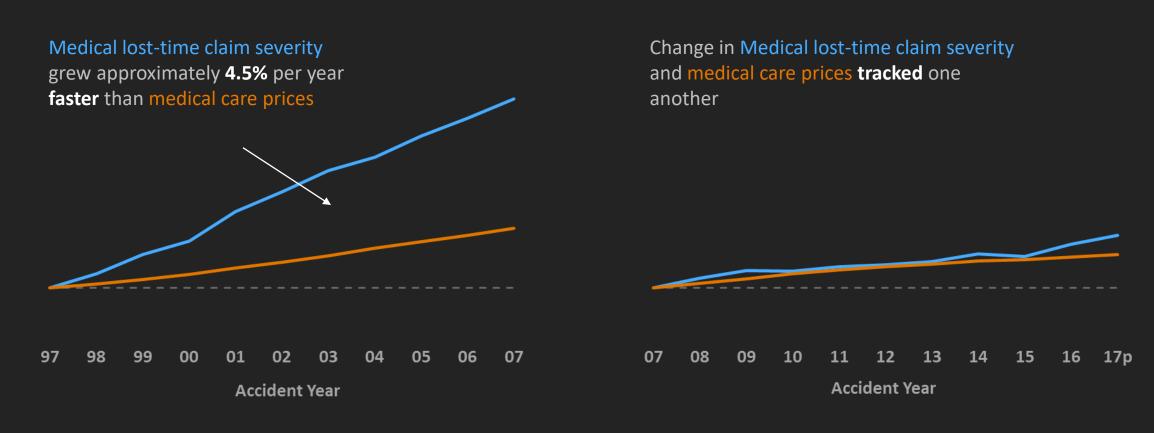
Values displayed reflect the methodology underlying the most recent rate/loss cost filing

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

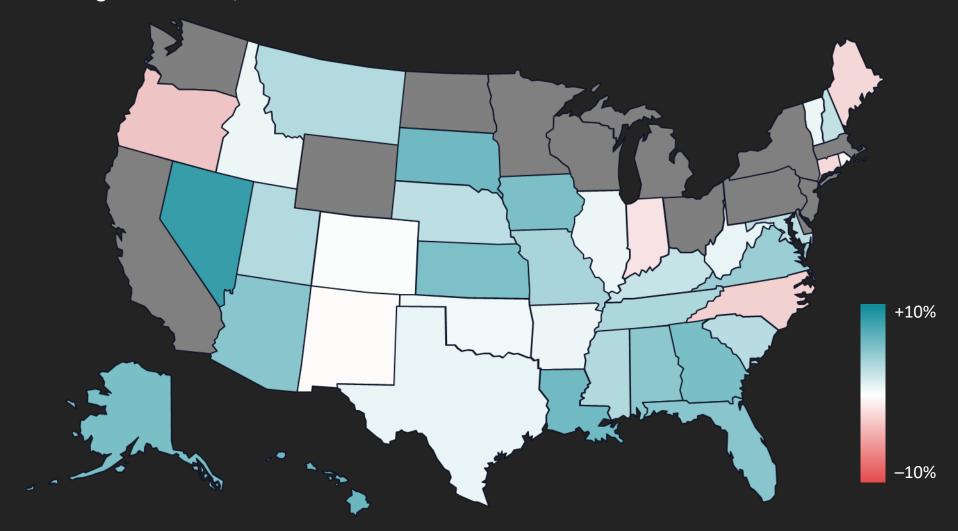
Values displayed reflect the methodology underlying the most recent rate/loss cost filing

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



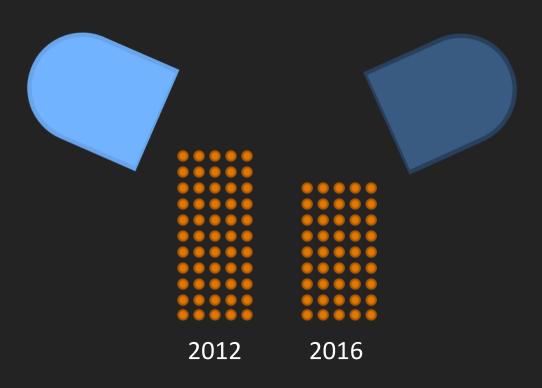
Source: NCCI's Financial Call data, developed to ultimate, excludes high-deductible policies; based on data through 12/31/2016 Values displayed reflect the methodology underlying the most recent rate/loss cost filing Includes all states where NCCI provides ratemaking services

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**

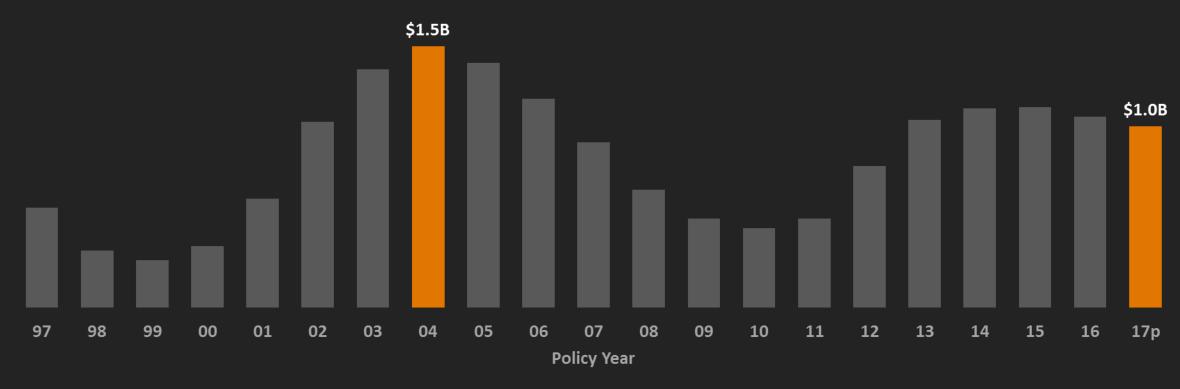
By **2016**, that share **decreased** to about **45**%



RESIDUAL MARKET

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

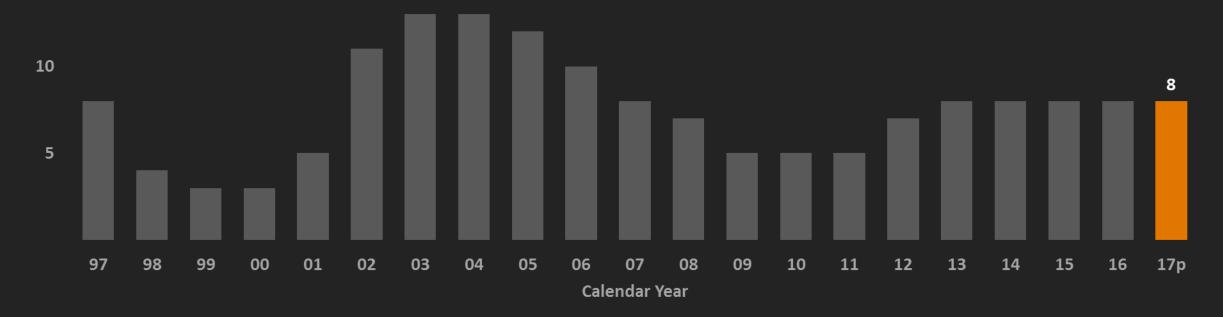
WC Residual Market Share

NCCI-Serviced WC Residual Market Pools

Percent

20

15

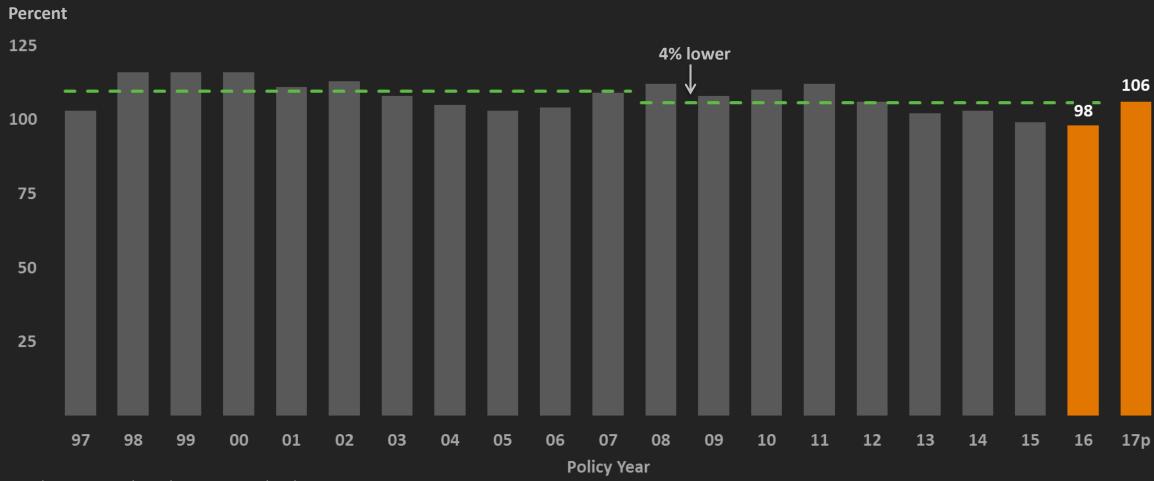


p Preliminary

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

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

WORKERS COMPENSATION SUMMARY

Workers Compensation Summary

On One Hand

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

On the Other Hand

- Combined ratio improved to the lowest level in over half a century
- Payroll continued to increase
- Severity increases remained moderate
- Residual Market remained stable and manageable

THANK YOU