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Workers Compensation Ratemaking— An Overview

Rating Bureau Perspective

Jay Rosen, NCCI, Inc.

CAS 2013

Ratemaking and Product Management Seminar Huntington Beach, California – March 12, 2013

Huntington Beach

Ratemaking and Product Management Seminar - Workers Compensation Ratemaking-An Overview - CAS 2013 Ratemaking and Product Management Seminar - Workers Compens

WC-1: WC Ratemaking-An Overview - Part 1

Rating Bureau Perspective Outline

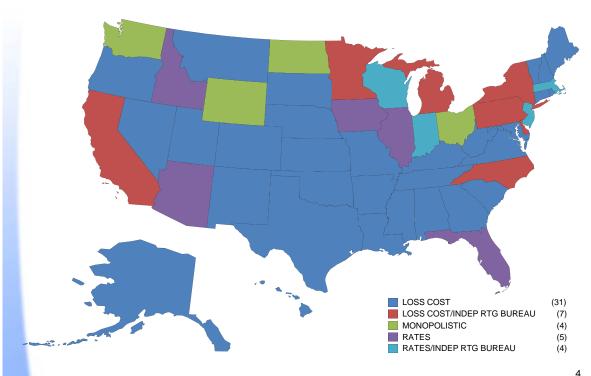
- Overview of Workers Compensation Insurance
- NCCI Filing
- Overall Rate / Loss Cost Level Change
- Classification Rate / Loss Cost Changes

Loss Costs—What Are They?

In general, a loss cost represents a provision for losses and LAE per \$100 of payroll for each classification

Loss costs are not final rates because they do not include provisions for the remaining expenses (including production expenses, profit and contingencies, etc.) of an insurer

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Workers Compensation Rating Laws

NCCI Workers Compensation Databases

Financial Aggregate Calls

Used for aggregate ratemaking

WC Statistical Plan (WCSP)

Used for class ratemaking

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Financial Aggregate Calls

Collected annually

- Policy and calendar-accident year basis
- Statewide and assigned risk data

Premiums, losses and claim counts

- Evaluated as of December 31

Purpose

- Basis for overall aggregate rate indication
- Research

Designated Statistical Reporting (DSR) Level Premium

- Common benchmark level at which carriers report premium on the financial calls
- The DSR level represents the "approved" loss cost and assigned risk rate levels
- Varies by policy year and state

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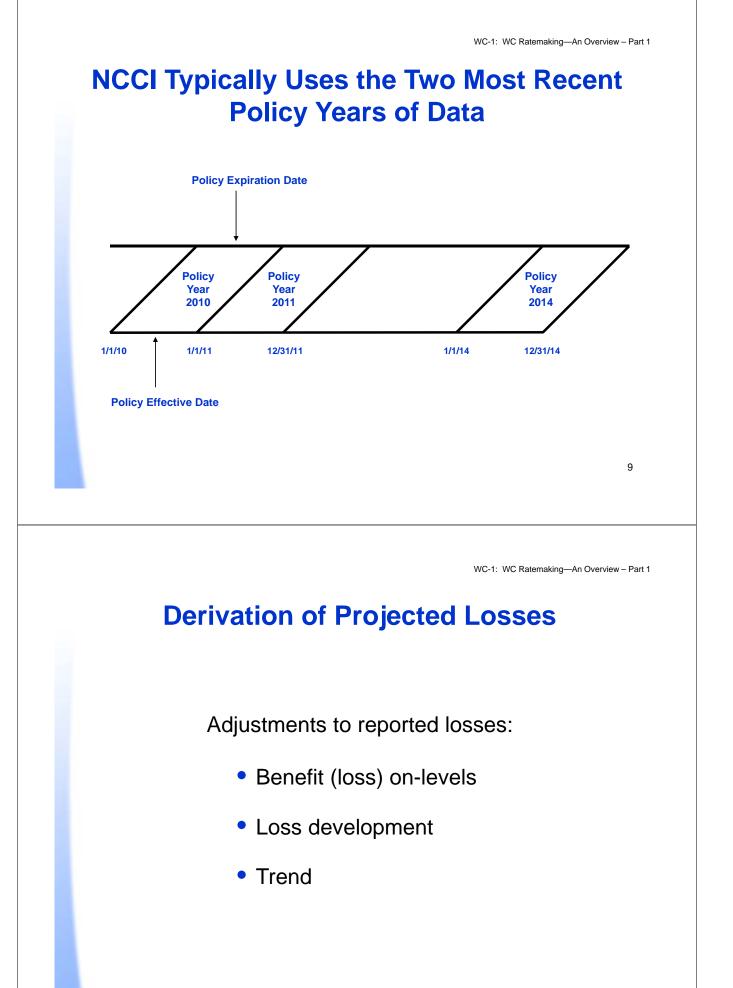
Ratemaking—The Big Picture

For the upcoming loss cost effective period:

Projected losses & Loss Adjustment Expense* Premium at current loss cost level

= Indicated overall average loss cost level change

* Not all states include loss adjustment expense in the calculation.



Benefit Changes

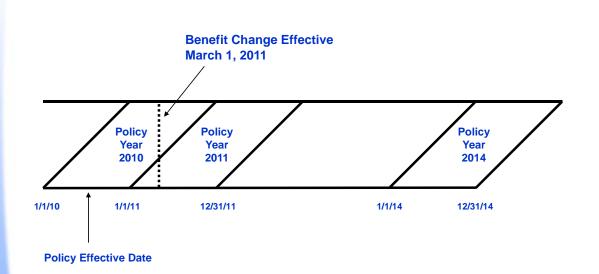
Changes that occur subsequent to the filing data must be reflected:

- Legislated benefit changes
- Court decisions
- New regulations

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Loss On-level Factors Adjust Data to the Current Benefit Level



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Loss Development

The ultimate cost of a reported claim may not be known for many years. Therefore, an initial estimate of the ultimate settlement value is made at the time the claim is reported.

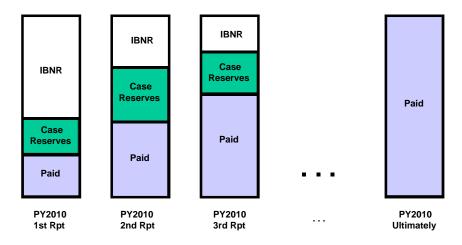
This estimate may change over time as the prognosis of the injury changes, the expected life-span shortens/ lengthens, the cost of medical services increases/ decreases, etc.

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Loss Development Factors Are Used to Estimate Ultimate Liabilities

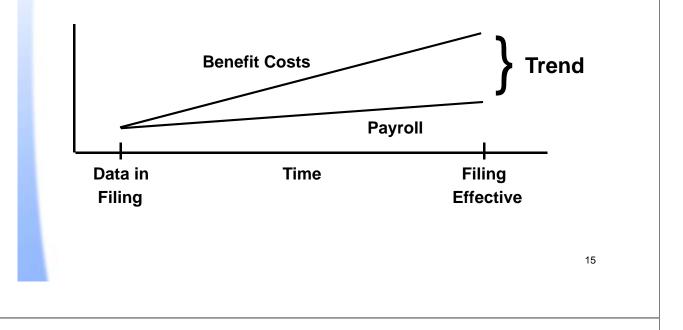
Over time, the % of ultimate losses that are paid increases



IBNR: Reserves set aside for claims that have been Incurred But Not yet Reported.

Trend

Trend compares movements in indemnity and medical costs to movements in payroll

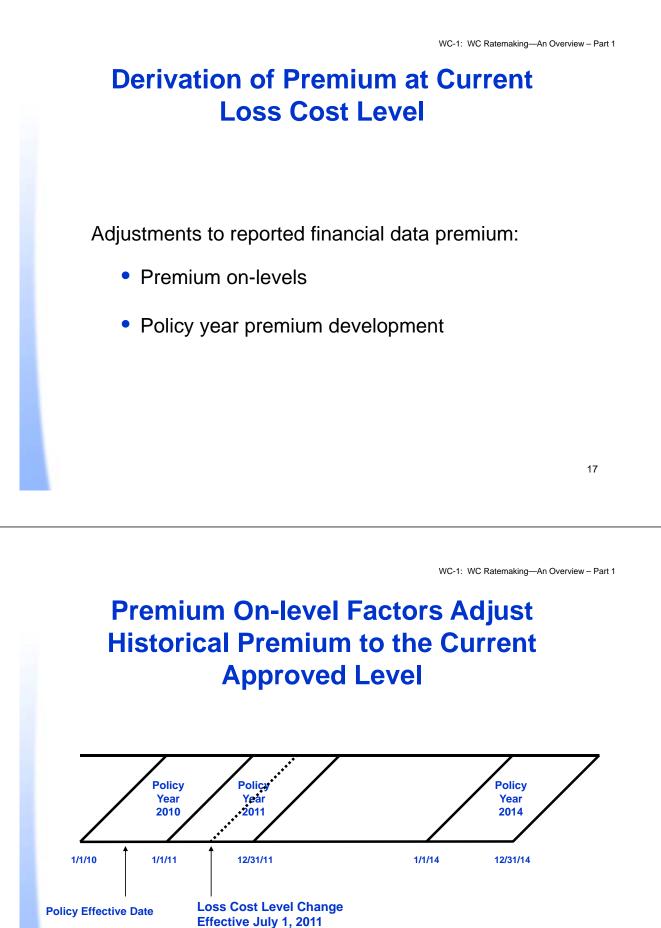


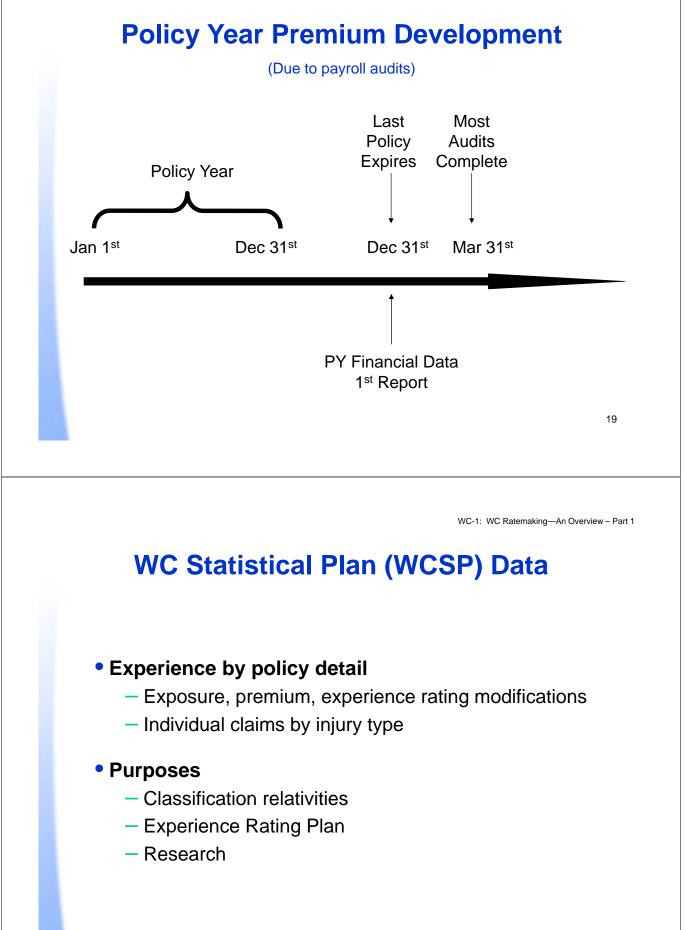
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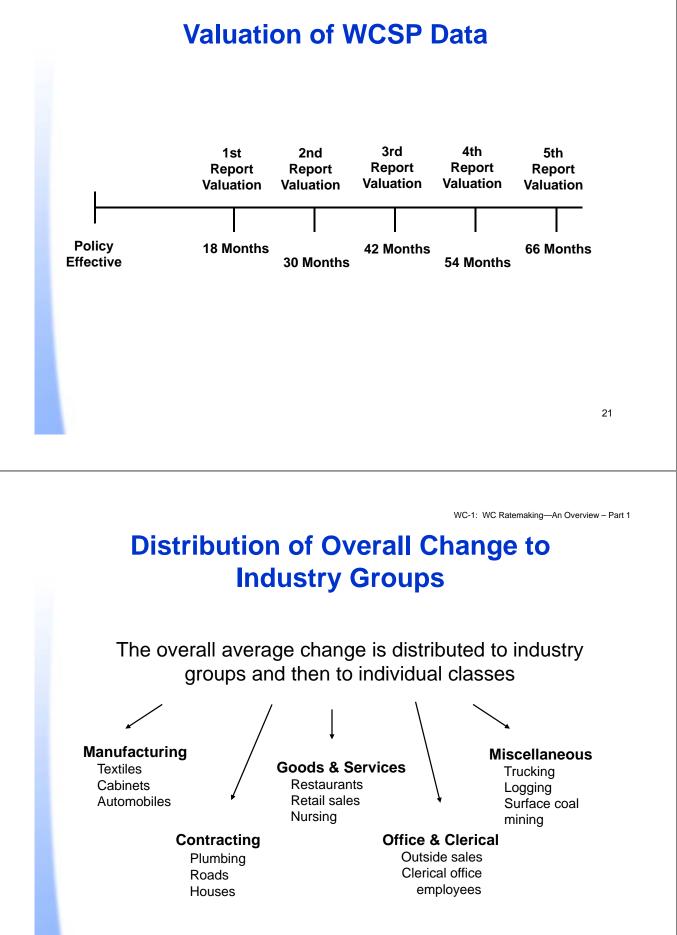
Techniques to Measure Trend

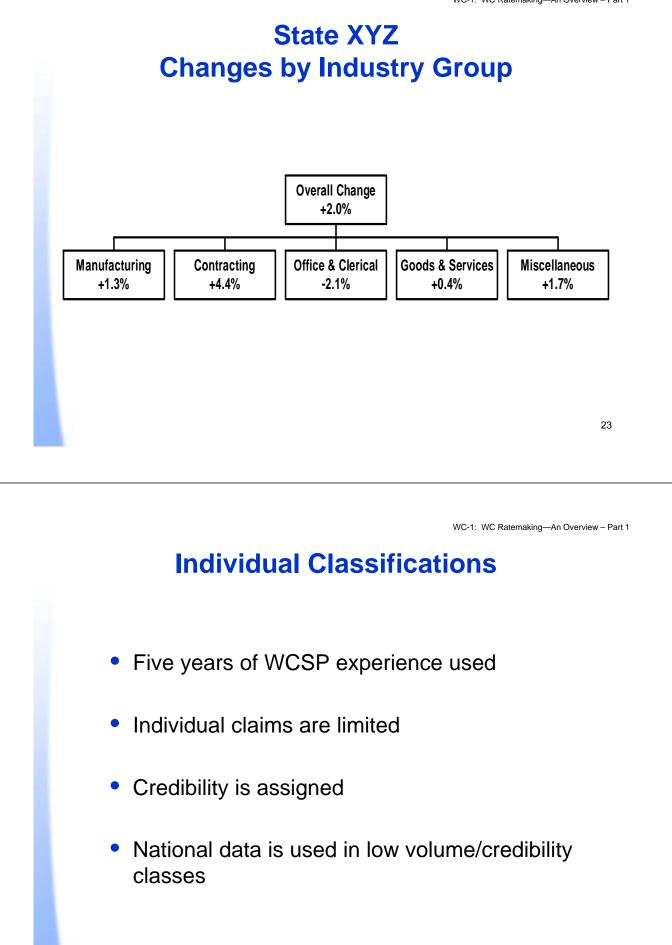
- Fitting curves to Historical Loss Ratios
- Use of Frequency and Severity Data
- Econometric Analysis
- Outside Sources (AHA, DOL)

A positive trend assumes that losses are growing faster than wages. A negative trend assumes the opposite.

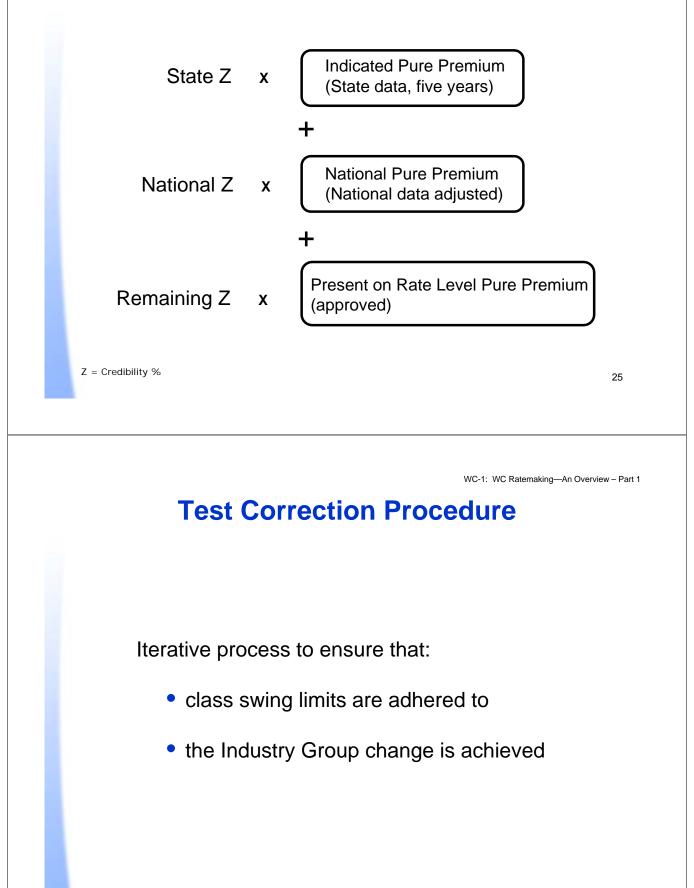




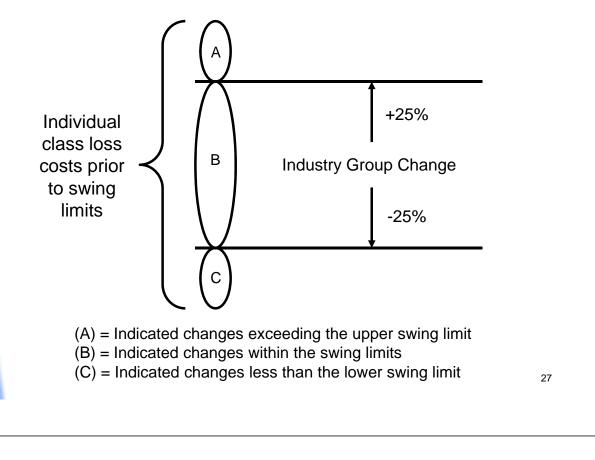




Formula Pure Premiums



Classification Swing Limits



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Final Loss Cost

- Add in a provision for Loss Adjustment Expense (Expenses of an insurer which are directly chargeable to the settlement of claims—such as investigating cases and defending law suits)
- May also include loss-based assessments

Loss Cost including LAE

Loss Adjustment Expense

Developed and Trended Losses



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