Workers Compensation Ratemaking— An Overview

Rating Bureau Perspective

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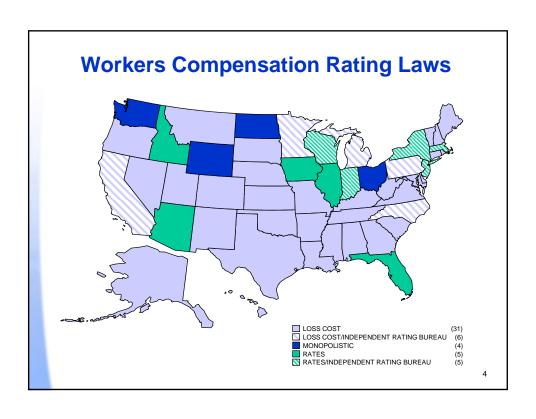
Rating Bureau Perspective Outline

- 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



NCCI Workers Compensation Databases

- Financial Aggregate Calls
 - Used for aggregate ratemaking
- WC Statistical Plan (WCSP)
 - Used for class ratemaking
- Detailed Claim Information (DCI)
 - In-depth sample of lost-time claim information

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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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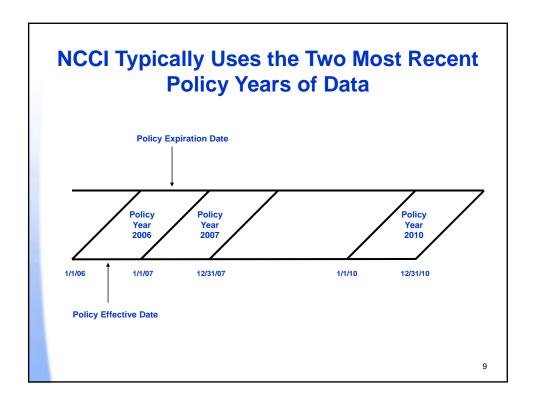
Ratemaking—The Big Picture

For the upcoming loss cost effective period:

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



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Policy Year Data

Advantages

- Premiums and losses are from the same block of policies
- More mature
- More stable

Derivation of Projected Losses

Adjustments to reported losses:

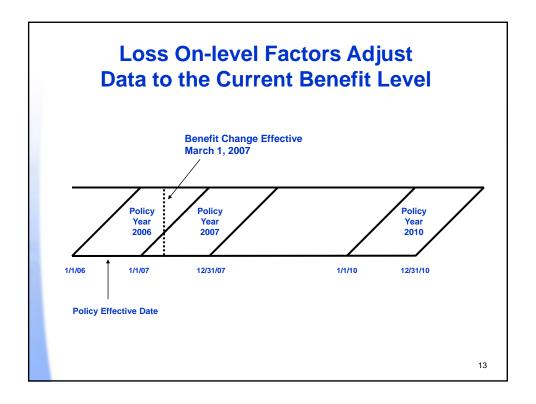
- Benefit (loss) on-levels
- Loss development
- Trend

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Benefit Changes

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

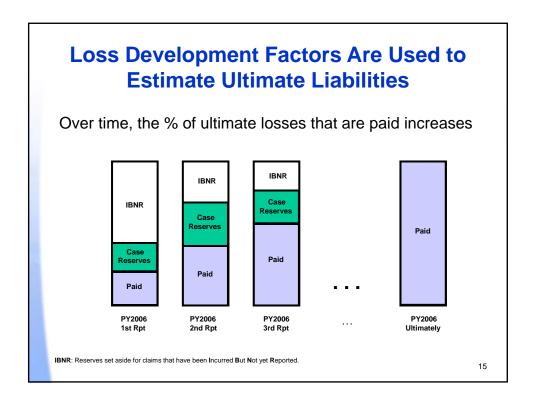
- Legislated benefit changes
- Court decisions
- New regulations

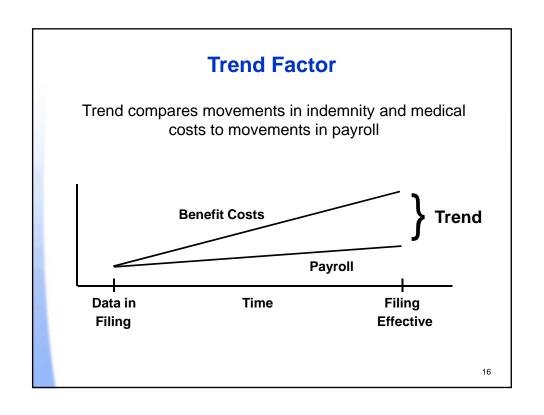


Loss Development

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.





Techniques to Measure Trend

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

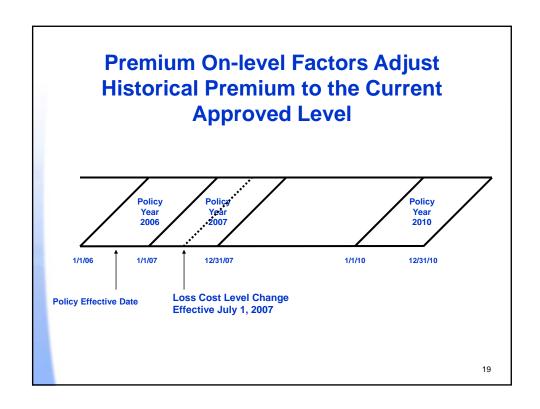
A positive trend assumes that losses are growing faster than wages. A negative trend assumes the opposite.

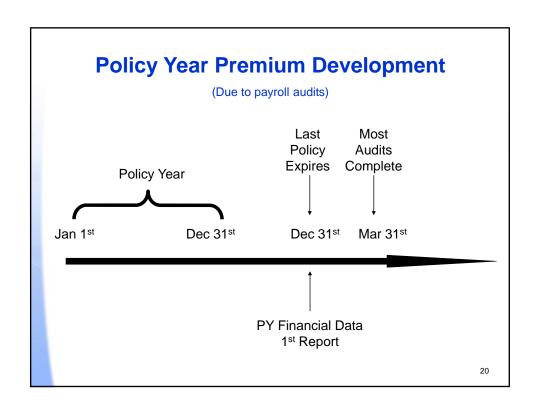
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Derivation of Premium at Current Loss Cost Level

Adjustments to reported financial data premium:

- Premium on-levels
- Policy year premium development





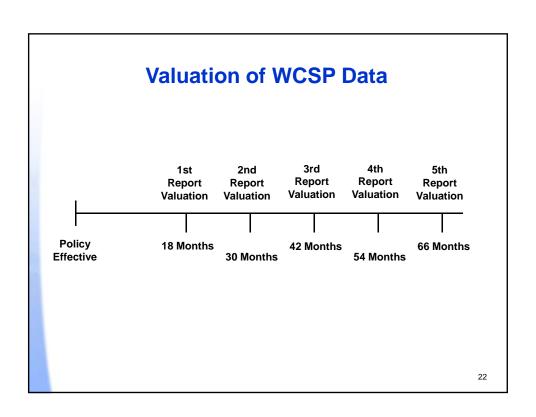
WC Statistical Plan (WCSP) Data

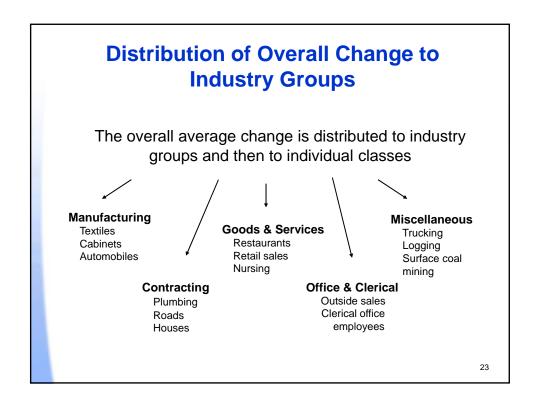
Experience by policy detail

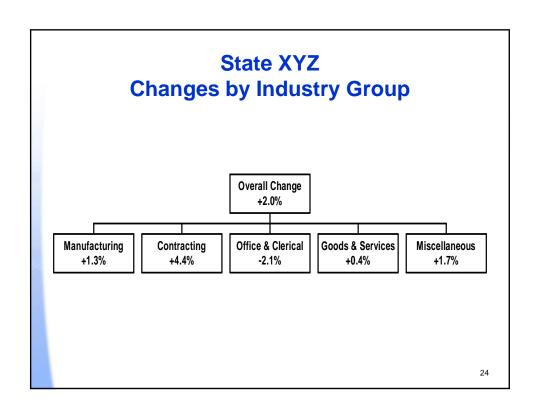
- Exposure, premium, experience rating modifications
- Individual claims by injury type

Purposes

- Classification relativities
- Experience Rating Plan
- Research







Individual Classifications

- Analyze individual policy data (WCSP)
- Five years of experience used
- Credibility is assigned
- Low volume classes use national data to enhance credibility

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Formula Pure Premiums

State Z x Indicated Pure Premium (State data, five years)

+

National Z x National Pure Premium (National data adjusted)

+

Remaining Z x Present on Rate Level Pure Premium (approved)

Z = Credibility %

Test Correction Procedure

Iterative process to ensure that:

- · class swing limits are adhered to
- the Industry Group change is achieved

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Classification Swing Limits Individual class loss costs prior to swing limits (A) = Indicated changes exceeding the upper swing limit (B) = Indicated changes within the swing limits (C) = Indicated changes less than the lower swing limit

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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Thank You for Your Attention! Questions/Comments?

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