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# Workers Compensation Ratemaking— An Overview

# Rating Bureau Perspective Jay Rosen, NCCI, Inc.

CAS 2014

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Ratemaking and Product Management Seminar Washington, DC – April 1, 2014

Washington, DC

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# **Rating Bureau Perspective Outline**

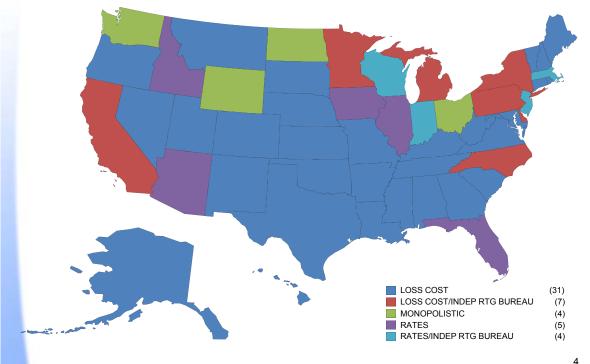
- Overview of Workers Compensation Insurance
- NCCI Filing
- Overall Rate / Loss Cost Level Change
- Classification Rate / Loss Cost Changes

# 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

# **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



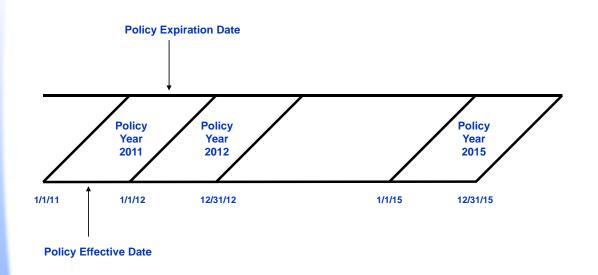
For the upcoming loss cost effective period:

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.

# NCCI Typically Uses the Two Most Recent Policy Years of Data



# **Derivation of Projected Losses**

Adjustments to reported losses:

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

# **Benefit Changes**

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

- Legislated benefit changes
- Court decisions
- New regulations

#### Loss On-level Factors Adjust **Data to the Current Benefit Level Benefit Change Effective** March 1, 2012 Policy Policy Policy Year Year Year 2011 2012 2015 1/1/11 1/1/12 12/31/12 1/1/15 12/31/15 **Policy Effective Date** 11

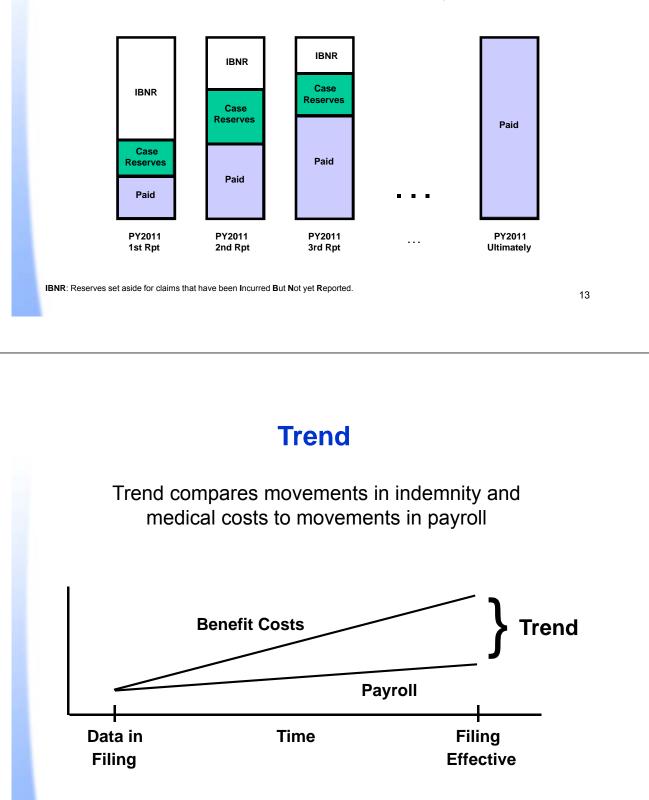
# **Loss Development**

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.

# Loss Development Factors Are Used to Estimate Ultimate Liabilities

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



# **Techniques to Measure Trend**

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

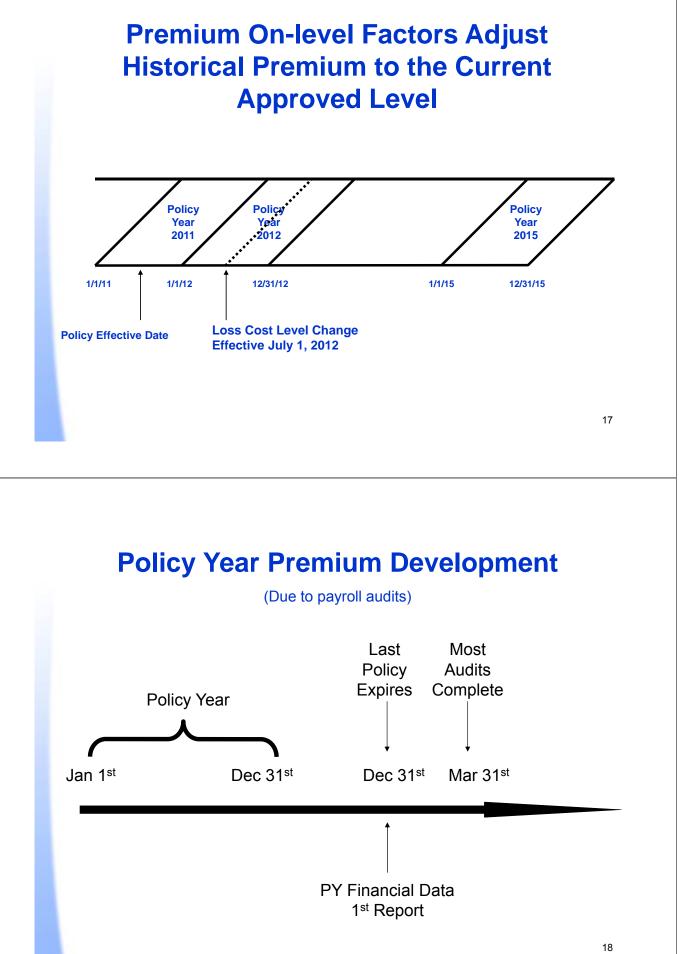
A positive trend assumes that losses are growing faster than wages. A negative trend assumes the opposite.

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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

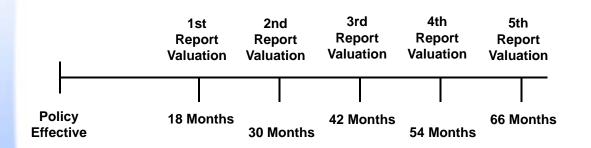
#### Experience by policy detail

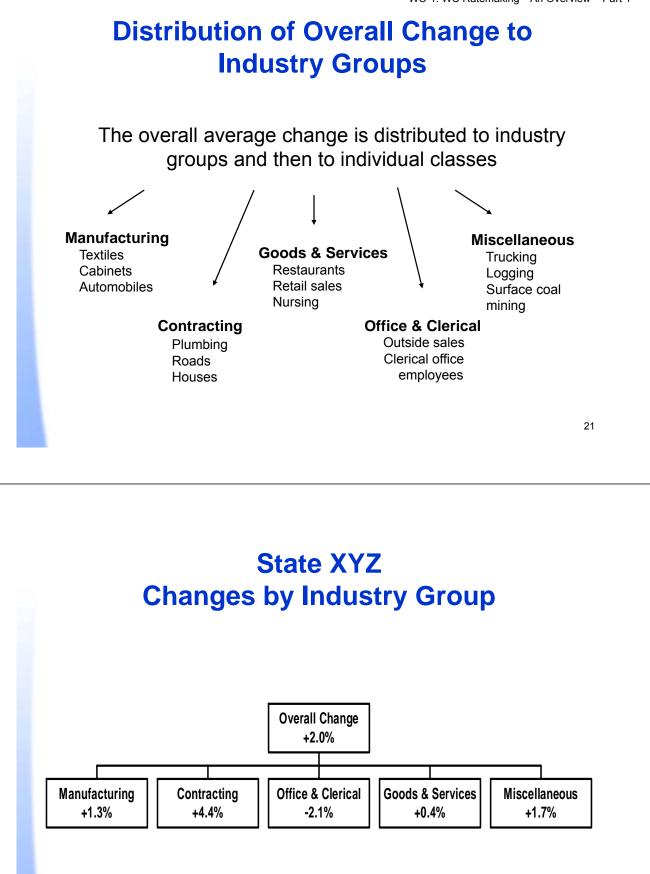
- Exposure, premium, experience rating modifications
- Individual claims by injury type

#### • Purposes

- Classification relativities
- Experience Rating Plan
- Research

# Valuation of WCSP Data



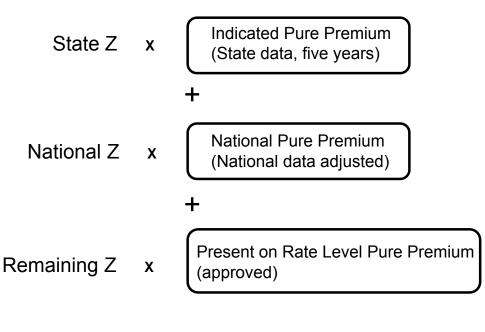


# **Individual Classifications**

- Five years of WCSP experience used
- Individual claims are limited
- Credibility is assigned
- National data is used in low volume/credibility classes

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# **Formula Pure Premiums**

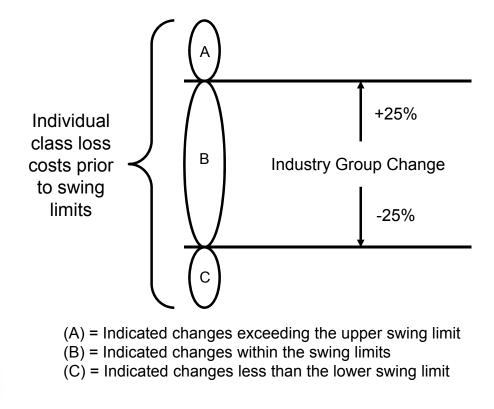


# **Test Correction Procedure**

Iterative process to ensure that:

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





### **Final Loss Cost**

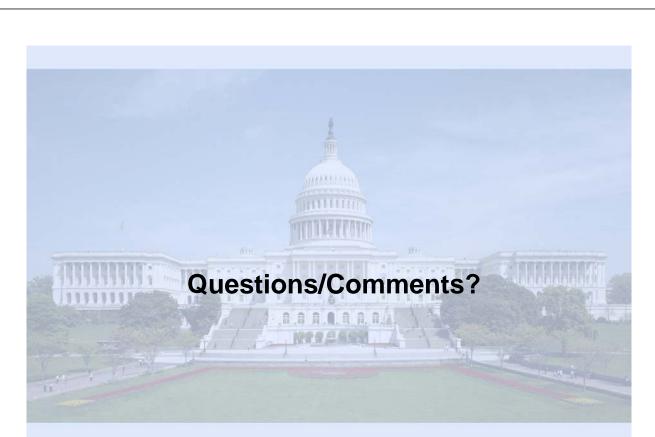
- Add in a provision for Loss Adjustment Expense (Expenses of an insurer which are directly chargeable to the settlement of claims—such as investigating cases and defending law suits)
- May also include loss-based assessments

#### Loss Cost including LAE

Loss Adjustment Expense

Developed and Trended Losses

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