2009 Casualty Loss Reserve Seminar Session: Workers Compensation - How Long is the Tail?

Moderator:

• Larry Vitale, Senior Vice President, Aon Benfield

Panelists:

- Christopher Tait, Principal and Consulting Actuary, Milliman, Inc.
- Timothy Wisecarver, President, PA & DE Compensation Rating Bureaus
- Frank Schmid, Director and Senior Economist, NCCI Holdings, Inc



→ Workers Compensation Loss Development "Tail"

- Problem Viewed by Component Parts Very Different Characteristics
- Key Drivers in Loss Development Process



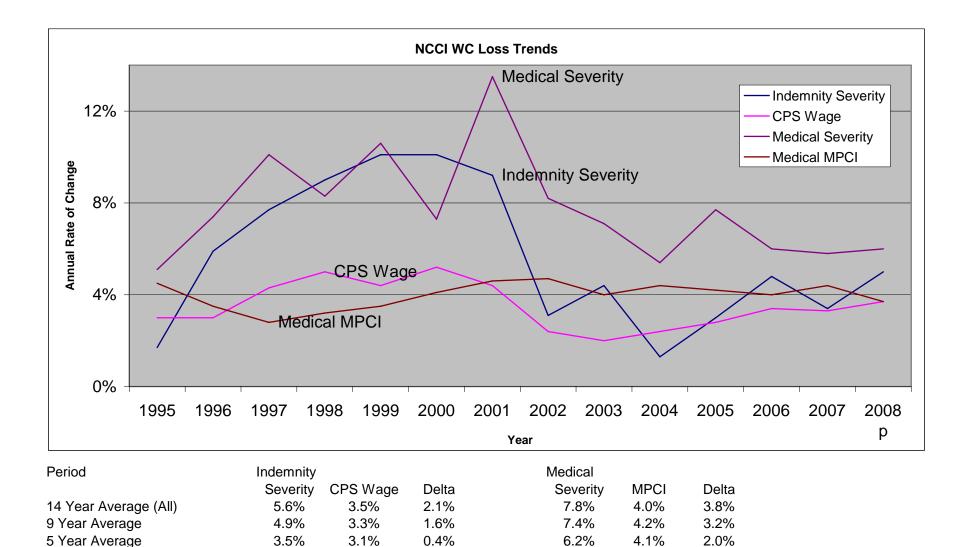
WC Loss by Injury Type including Frequency, Severity & Aggregate

	Workers Compensation - Loss Frequency							
	Number of Claims per 100,000 Workers							
	Fatal	Permanent Total	Permenant Partial	Temporary Total	Total Lost-Time	Medical Only	Total	
Average Recent 7 PYs	3.8	7.9	413.8	771.5	1,196.9	4,123.8	5,320.7	
% of Loss-Time Trend - Latest 5 Yrs Trend - Latest 10 Yrs	0.3% Negative -2.5%	0.7% Positive -1.0%	34.6% Negative -3.2%	64.5% Negative -5.0%	100.0% Negative -4.5%	77.5%		
	Workers							
Un-weighted Average of NCCI Rate Supported States	436,523	1,403,150	140,702	16,164	62,442	1,177		
	Workers Compensation - Aggregate Loss							
Based on Aggregate Loss at Current Level Ultimate	1.8%	8.8%	62.8%	19.9%	93.2%	6.8%	100.0%	

Source: NCCI Annual Statistical Bulletins NCCI State of the WC Line - Dennis Mealy Chief Actuary May 7,2009 NCCI Excess Loss Factors by State - values were derived by aggregating NCCI states values.



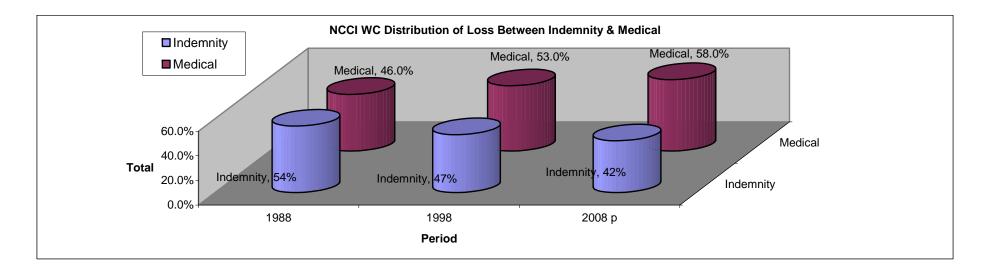
WC Loss Severity Trends



Source: NCCI State of the WC Line - Dennis Mealy Chief Actuary May 7,2009



Long Term Trends on WC "Tail": Medical Cost & Life Expectancy



Source: NCCI State of the WC Line - Dennis Mealy Chief Actuary May 7,2009

Male Life Expectancies At Different Ages Based on Social Security Administration Mortality Tables

Current Age	1960	1980	2000	2020	2040	2060	2080
20	49.7	51.7	54.7	56.8	58.7	60.3	61.8
40	31.3	33.5	36.2	38.1	39.8	41.4	42.7
60	15.9	17.3	19.3	20.8	22.2	23.4	24.6
80	6.0	6.8	7.2	7.8	8.6	9.4	10.1

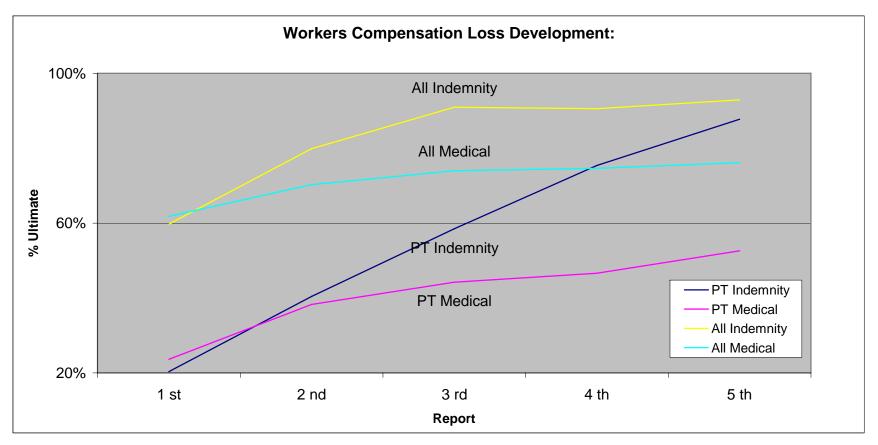
Source: Estimating The Workers' Compensation Tail, R.Sherman & Gordon Diss

Percentage Increase in Male Life Expectancies Based on Social Security Administration Mortality Tables

1980	2000	2020	2040	2060	2080
1960	1980	2000	2020	2040	2060
4.0%	5.8%	3.8%	3.3%	2.7%	2.5%
7.0%	8.1%	5.2%	4.5%	4.0%	3.1%
8.8%	11.6%	7.8%	6.7%	5.4%	5.1%
13.3%	5.9%	8.3%	10.3%	9.3%	7.4%



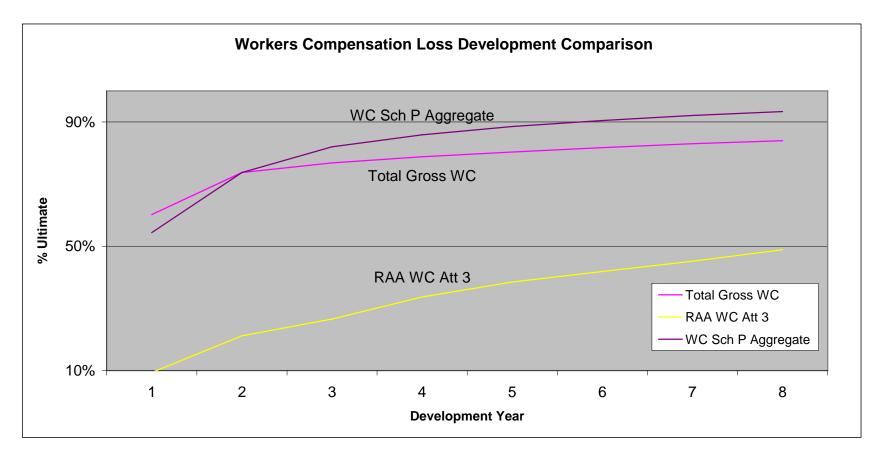
WC Loss Development by Significant Component



Source: NCCI Excess Loss Factors by State - values were derived by aggregating NCCI states values.



WC Loss Development in Total



Sources:

Total Gross WC 2009 NCCI Annual Statistical Bulletin: Countrywide Incurred RAA 2007 Loss Development Study: WC Attachment Point 3 - \$451k to \$1,850k WC Schedule P Industry Aggregate a/o 5/2009 for AY 2008 & Prior

