Casualty Actuaries of the Mid-Atlantic Region Session: Workers Compensation - How Long is the Tail?

Moderator:

• Larry Vitale, Senior Vice President, Aon Benfield

Panelists:

- Sean McAllister, FCAS Consulting Actuary Milliman, Inc.
- Timothy Wisecarver, President, PA & DE Compensation Rating Bureaus
- John Robertson, FCAS Director & Senior Actuary National Council on Compensation Insurance, Inc



→ Workers Compensation Loss Development "Tail"

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



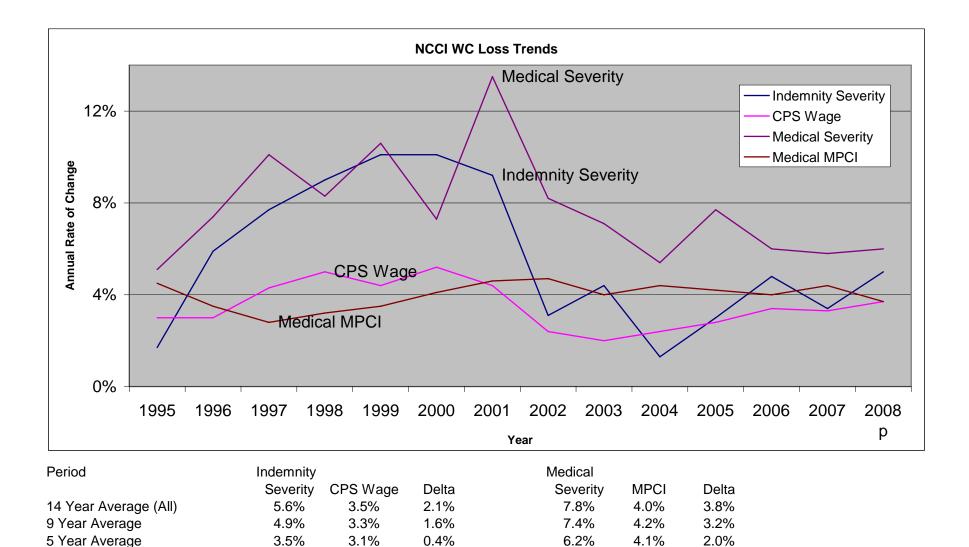
WC Loss by Injury Type including Frequency, Severity & Aggregate

	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 Compensation - Loss Severity						
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.



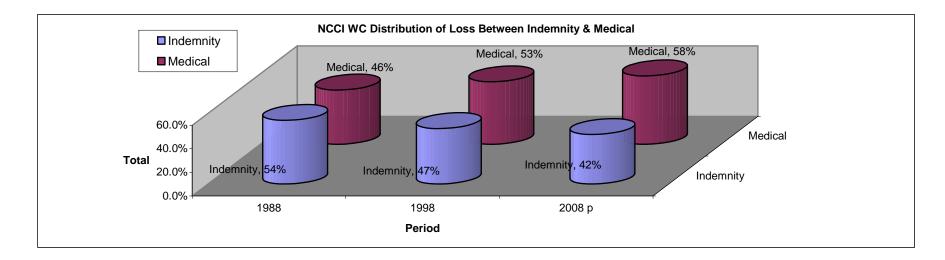
WC Loss Severity Trends



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
40 60	31.3 15.9	33.5 17.3	36.2 19.3	38.1 20.8	39.8 22.2	41.4 23.4	42.7 24.6

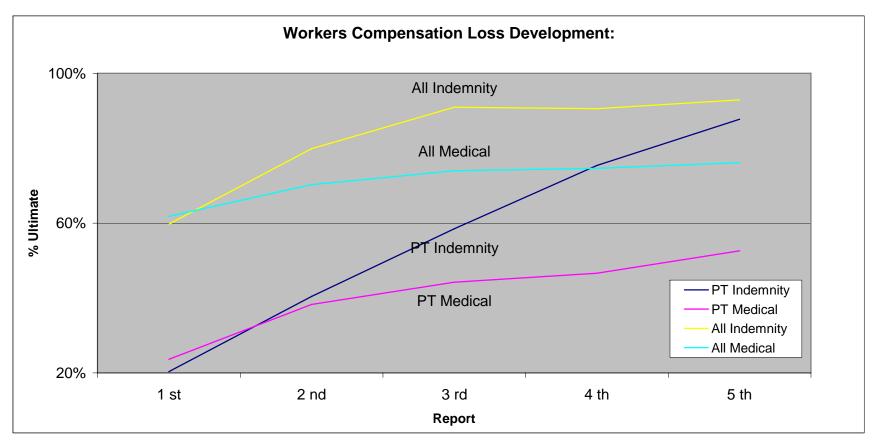
Source: Estimating The Workers' Compensation Tail, R.Sherman & Gordon Diss

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

1980 1960	2000 1980	2020 2000	2040 2020	2060 2040	2080 2060
4.0%	5.8%	3.8%	3.3%	2.7%	2.5%
4.0 <i>%</i> 7.0%	5.8 <i>%</i> 8.1%	5.2 <i>%</i>	3.3 <i>%</i> 4.5%	2.7 <i>%</i> 4.0%	2.5 <i>%</i> 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%



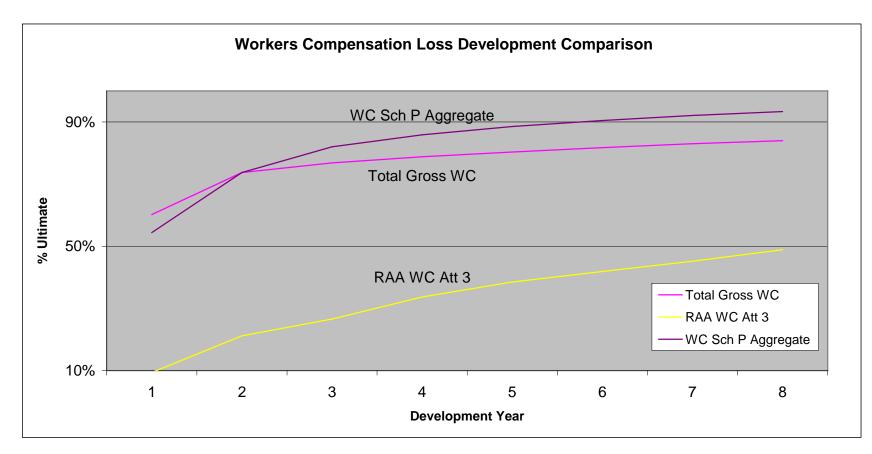
WC Loss Development by Significant Component



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

