

Overview

- This updates our prior study by adding five more years of experience
- Losses are case incurred indemnity + medical
- Large deductible claims are excluded, unless otherwise noted
- Loss adjustment expenses are excluded

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Excess Loss and Claim Count Emergence

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Large Loss and Catastrophe "Call 31"

- Initiated to facilitate procedure for treating large losses in aggregate ratemaking
- Includes Accident Years 1984 and forward, valued at year-end 1998 and subsequent
- At each year-end valuation, all claims with total case incurred losses over \$500K are reported
- Because claims may exceed \$500K for only some year-end valuations, we don't have a complete claims history and, therefore, can't derive ground-up loss development

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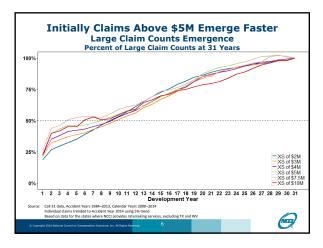


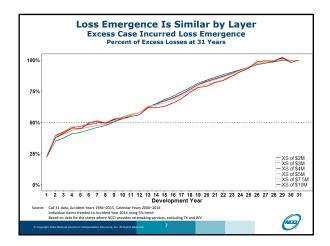
Trending Individual Claims

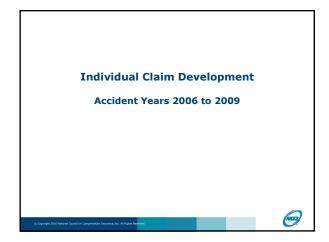
- Over time, trends in claim costs shift the relative size of a fixed attachment point compared to average claim size
 - \$500K in 1984 dollars is much higher than \$500K in 2014 dollars
- For example, if costs double over ten years, then development patterns today excess of \$2M will be comparable to those excess of \$1M ten years ago
- We compensate for this by trending individual claim amounts to Accident Year 2014 with a 5% annual inflationary trend

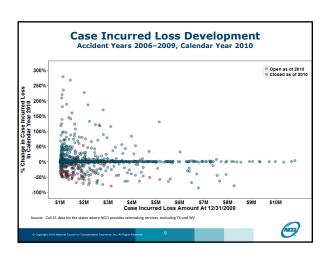
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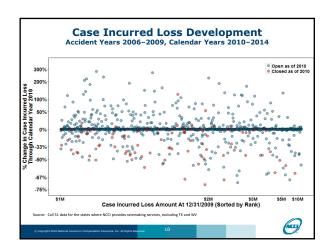


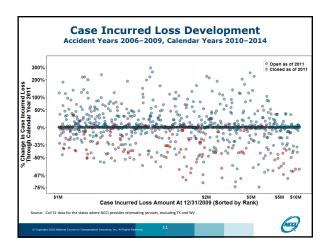


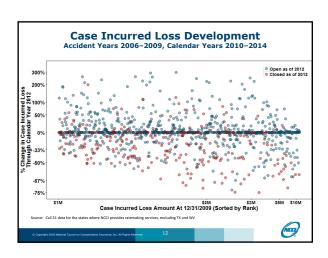


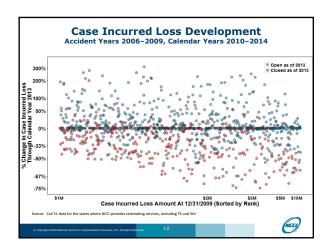


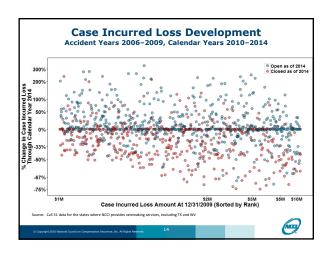


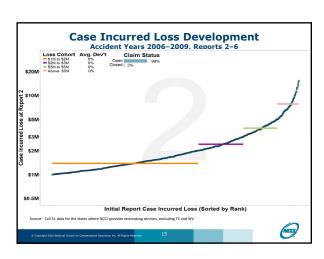


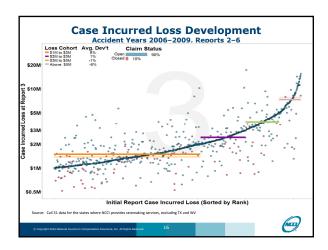


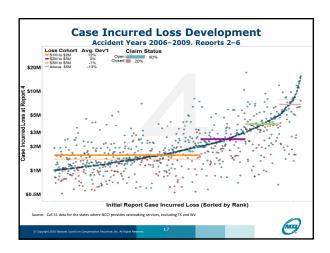


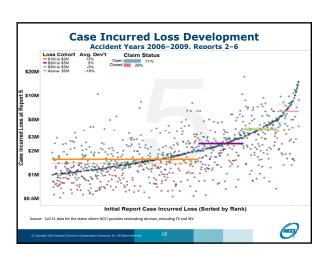


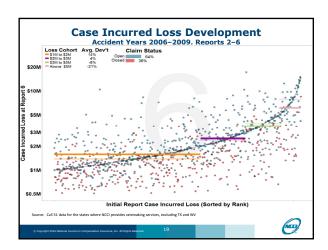


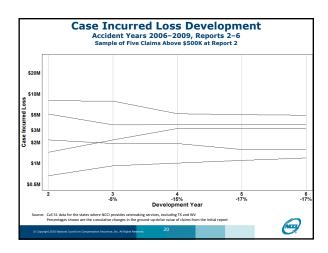


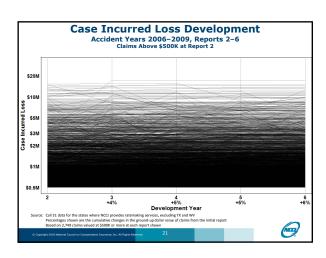


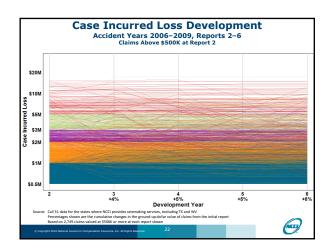


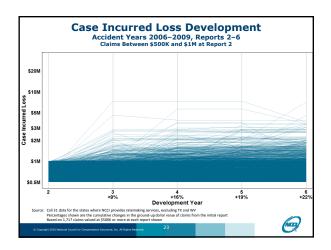


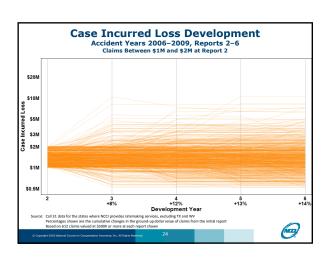


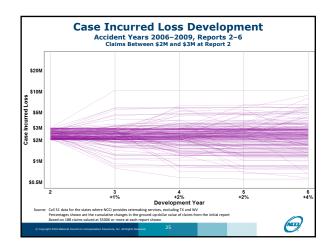


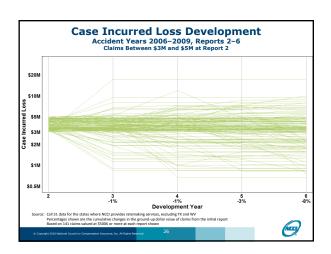


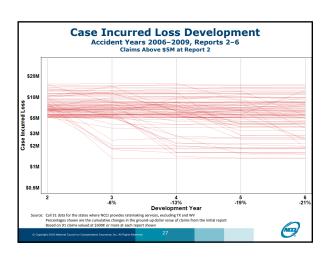


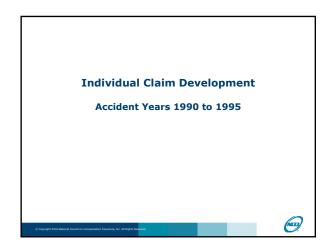


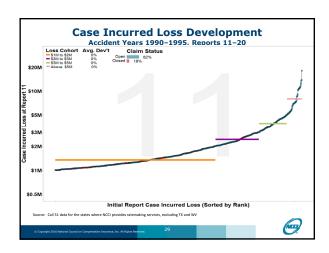


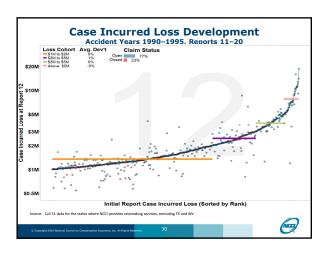


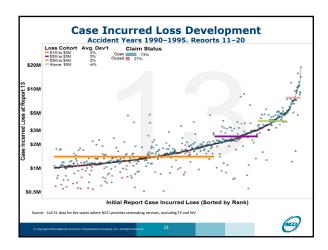


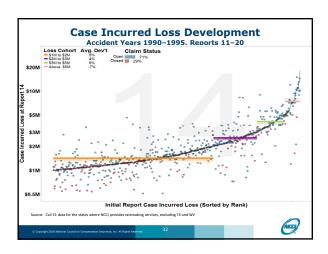


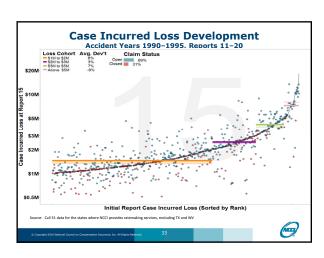


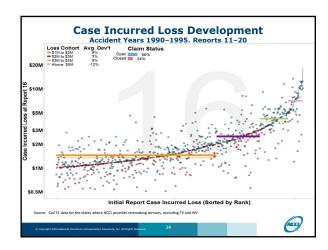


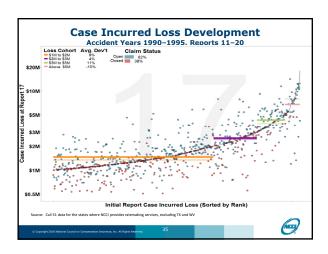


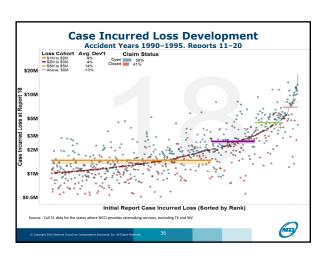


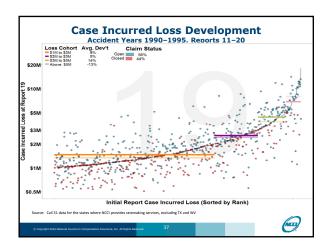


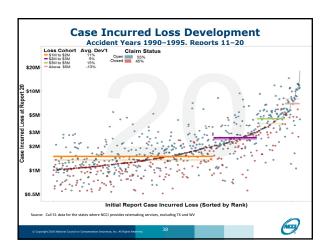


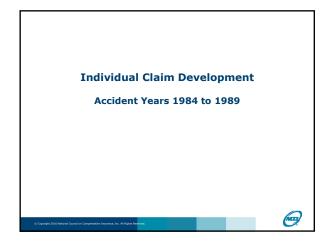


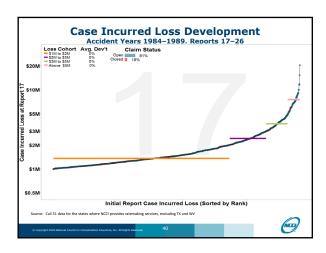


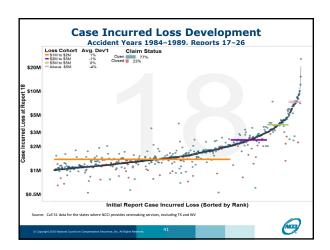


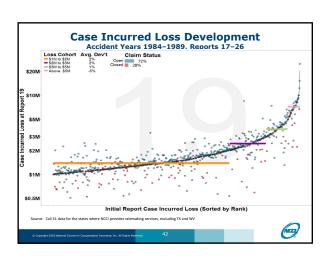


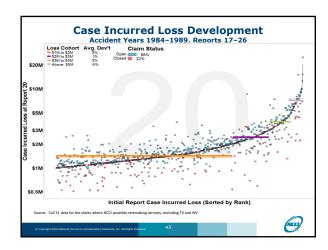


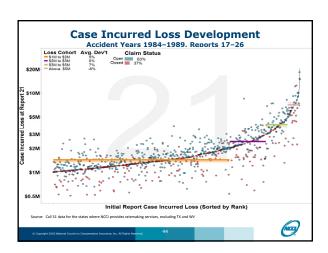


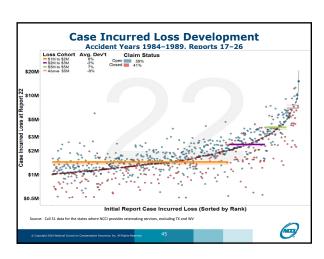


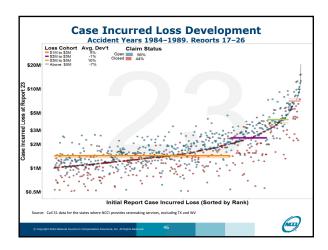


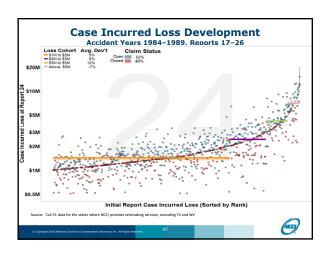


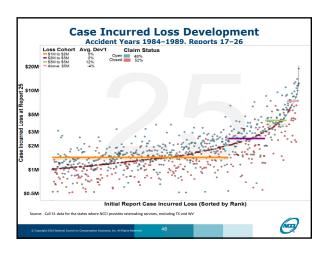


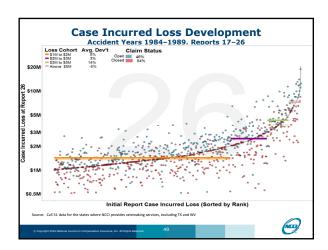


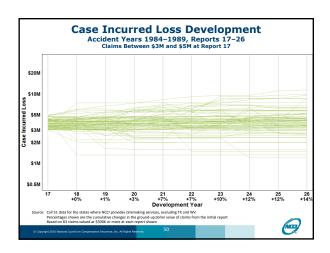


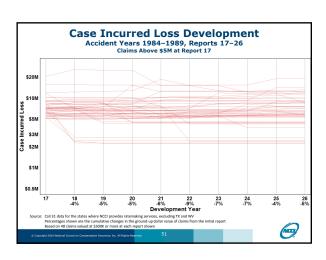








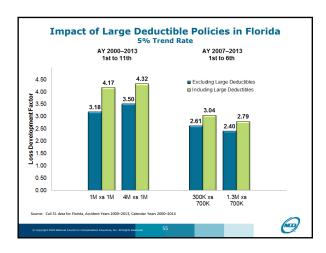




Statistical Summary	
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G	verage rouped				d Clain t Initia			
Accident Years	Statistic	<\$1M	\$1M to \$2M	\$2M to \$3M	\$3M to \$5M	\$5M +		All Claims
2006 to 2009	Avg Dev't	22%	14%	4%	-8%	-21%		6%
2nd to 6th	# of Claims	1,717	612	188	141	91		2,749
2001 to 2005	Avg Dev't	37%	16%	7%	-9%	-21%		8%
2nd to 10th	# of Claims	1,012	494	164	122	77		1,869
1996 to 2000	Avg Dev't	30%	7%	1%	-3%	-23%		9%
5th to 15th	# of Claims	1,201	398	104	81	44		1,828
1990 to 1995	Avg Dev't	20%	11%	5%	15%	-13%		12%
11th to 20th	# of Claims	2,105	537	146	93	51		2,932
1984 to 1989	Avg Dev't	15%	5%	3%	14%	-5%	1	9%
17th to 26th	# of Claims	2,493	682	141	83	48		3,447
Averag	data for the states where e development is the per al report				t of claims from the ini	tial report to		





	Trend Rate		Trend Rate		Trend Rate	
Layers	3%	5%	3%	5%	3%	5%
	1st to	31st	1st to	16th	16th t	o 31st
XS of \$2M	4.18	4.56	2.95	3.23	1.42	1.41
XS of \$3M	4.10	4.40	2.86	3.07	1.43	1.43
XS of \$4M	4.14	4.32	2.87	3.01	1.44	1.44
XS of \$5M	4.22	4.30	2.90	2.97	1.46	1.45
XS of \$7.5M	4.62	4.46	2.97	3.04	1.56	1.47
XS of \$10M	4.89	4.56	2.83	3.00	1.73	1.52

	Researc	h Update	Researc	h Update	Research Update	
Layers	2011	2016	2011	2016	2016	
	1st to 26th		11th to 26th		26th to 31st	
XS of \$2M	4.71	4.39	1.85	1.73	1.04	
XS of \$3M	4.45	4.26	1.83	1.73	1.03	
XS of \$4M	4.33	4.21	1.81	1.72	1.03	
XS of \$5M	4.30	4.19	1.82	1.72	1.03	
XS of \$7.5M	4.38	4.37	1.89	1.74	1.02	
XS of \$10M	4.36	4.50	1.99	1.80	1.01	

Conclusion	
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Summary	
Claims less than \$3M generally develop upward, while claims over \$5M generally develop downward	
Claims between \$3M and \$5M generally develop:	
Downward during the early report periodsUpward during the late report periods	
The most recent calendar years suggest excess loss development continues beyond 26 reports	
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Appendix	
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