Gulf Coast Oil Spill Impact on Debt Protection - Involuntary Unemployment Claims

2011 CAS Ratemaking and Product Management Seminar

March 21, 2011

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Gulf Coast Oil Spill Impact on Debt Protection - Involuntary Unemployment Claims

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Overview of Exposure by Line of Business

- Property
 - Wind-driven oil-water on exterior damage likely less than deductible
 - Wind-driven oil-water that enters home through missing roof likely a total loss anyway – no different than regular sea water
 - Wind-drive oil-water that enters home through broken window
- Auto
 - Exposure from wind-driven oil-water to autos minimal both physical damage to auto and increased hazard from driving on oil-slicken road in event of hurricane
- Workers Comp (Jones Act) slip and fall from oil
- Commercial Specialty Hull oil damage to exterior of ship
- Business Interruption/Involuntary Unemployment significant tourism, fishing, oil drilling, etc.

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Gulf Coast Oil Spill Impact on Debt Protection - Involuntary Unemployment Claims **Debt Protection** There exist insurance products that protect against involuntary unemployment, but the product presented here is debt protection A banking product, not an insurance product • Customer pays a "fee", not a "premium" • Financial Institution pays a "benefit", not a "loss" From an actuarial perspective, works like insurance – benefits (losses) are analyzed, which leads to development of fees (premiums) Note – all customers pay same rate • Protections (analogous term in insurance world is "Coverages") Involuntary Unemployment (IU) Disability Death Leave of Absence from Work Hospitalization Miscellaneous Events (Marriage, Divorce, Birth, Adoption, Retirement, Moving) 2011 CAS RPM Seminar **Bank of America** Gulf Coast Oil Spill Impact on Debt Protection - Involuntary Unemployment Cla **Debt Protection (continued)** • Called "Debt Protection" because the customer's debt is protected – Two main categories of debt protected – Credit cards Mortgages Benefits generally fall into one of two categories: Cancel minimum monthly payments on Credit Card and principal and interest payment on Mortgage, up to a maximum number of months Balance Cancellation (up to limit), in event of Death for Credit Card product Rather than cancel the monthly payment, some debt protection products only suspend the payment • Rate is per \$100 of outstanding balance 2011 CAS RPM Seminar Bank of America Gulf Coast Oil Spill Impact on Debt Protection - Involuntary Unemployment Claim Basic Approach to Exposure Analysis -Initial Estimate Start with estimate of # Employed in Tourism & Agriculture in Gulf Coast – consider various sources of estimates – media reports, government labor websites, etc and select reasonable number • Divide by Total # Employed in Gulf Coast States to estimate % of population • Multiply by In-Force Book in Gulf Coast States to estimate # of customers affected · Multiply by Average Severity to estimate \$ Impact Probably produces a high-end – not all tourism jobs will be lost, as clean-up crews will need to stay in hotels and eat in restaurants Initial Estimate should state caveats and have a wide range 2011 CAS RPM Seminar **Bank of America**

	Gulf Coast Oil Spill Impact on Debt Protection - Involuntary Unemployment Claims
	Basic Approach to Exposure Analysis –
	Considerations for More Refined Estimate
	Distribution of in-force book by zip code likely not uniform across each state – will impact loss dollars
	Not all customers have Involuntary Unemployment protection – analogous to not all auto customers having physical damage coverage
	 Average severity will vary by location – depends on balances carried on credit card and on average mortgage payment
	Overall Points
	Data critical to making accurate estimate, which sets expectations for management
	Portfolio analysis critical for product w/o individual pricing
	Analysis of concentration of exposures important in all lines
	Total \$ Impact estimated by this approach was immaterial
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	Gulf Coast Oil Spill Impact on Debt Protection - Involuntary Unemployment Claims Actual Results
	By Report Month – oil spill occurred in April 2010 – impact not expected for 3 mo Credit Card – uptick in IU frequency from June 2010 to July 2010 for Gulf Coast states, but uptick also present for rest of U.S. in-force book
	 Look at ratio of Gulf Coast state IU Freq/rest of U.S. IU Freq – Uptick in July, but also an uptick in May, so July result could be random volatility
	 Mortgage – no uptick apparent in June or July Theory – impacted workers more likely to be seasonal/migrant workers and thus less likely to own a home
	By Incurred Month – more meaningful, as report month data combines data from past incurred months
	Credit Card – insignificant difference between Gulf Coast and rest of U.S. – Gulf Coast customers filed their claims earlier, thus driving the report month data higher in the initial months
	 Mortgage – no difference between Gulf Coast and rest of U.S.
	Mortgage – no difference between Gulf Coast and rest of U.S. Overall – the immaterial \$ impact in the initial estimate turned out to be very conservative