

TMPAA Webinar

Covid-19: Potential Impacts on P&C Insurance Carriers and Your Program

Thursday, April 30, 2020

Presented by:
David Paul
Principal, ALIRT Insurance Research

<u>David.Paul@alirtresearch.com</u> (860) 683-2070

ALIRT INSURANCE RESEARCH, LLC

- Provides private credit analytics on the life, property & casualty, and health industries
- Located in Windsor, CT
- Years in Business: 21
- Principals have worked together providing credit oversight on insurers for the past 30 years
- Produces quarterly financial analyses on approximately 500 Life, 1,700 P&C, and 450 managed care insurers (U.S.); foreign analyses includes Bermuda, Lloyds, and London Market insurers.
- Analysis generated by running statutory and GAAP financials through a proprietary model that screens for relative financial strength
- Clients: distributors of insurance products, end users of insurance products, asset managers, boards of directors, insurers
- Purpose 1: to "get below" the public ratings in order to more accurately determine the *relative* financial strength and weakness of insurers
- Purpose 2: Act as the outsourced due diligence staff for our agency/broker clients.



Credit Analysis: What Is It?

Credit Analysis is the study of whether an entity can make good on its financial obligations. Such obligations can include Bond Interest/Principal, Mortgage Loans, Business/Personal Loans, as well as the payment of insurance claims.

Credit analysts pay close attention to an entity's balance sheet as an expression of its relative financial health or 'solvency.'





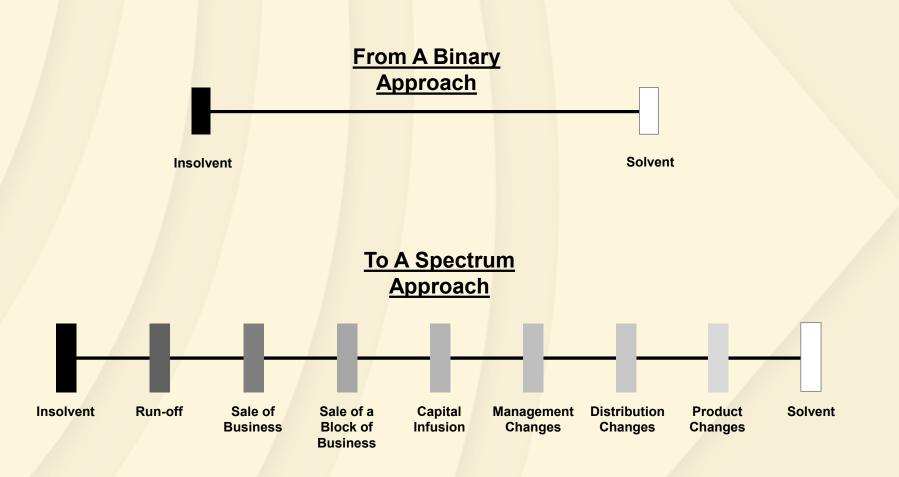
Credit Analysis: Special Considerations



- Because the future is to a large extent unknowable, credit analysts focus on the relative financial strength of an individual or entity.
- In the context of insurance analysis, ALIRT concentrates on the ability of an insurer to "take a punch" and remain standing.
- "Punches" can include losses arising from a cyclical deterioration in the industry's pricing/profitability, shock losses, investment losses, or the adverse impact of economic downturns."



Credit Analysis: Special Considerations



Per the National Conference of Insurance Guaranty Funds: 600 U.S. P&C insolvencies since 1969 = on average ½ of 1% point each year



Credit Analysis and the Current Environment

"And I think this event is very likely -- more than very likely, I think this event will be the largest event in insurance history, when you add it all up, both asset side and liability side of the balance sheet." (Evan Greenberg, Chubb Ltd. CEO – 1Q2020 Analyst Call)

"This pandemic was no doubt the largest insurance challenge the industry has ever faced, I think by some way. The chances of the market making anything other than a notable loss in 2020 are zero." (John Neal, Lloyd's CEO – Financial Times interview)

Four Periods of Financial Stress - 1990 - 2020 Degrees of Severity												
Years	Cause	PC Market Cycle	Catastrophes	Capital Market Disruption	Economic Downturn	Impact on U.S. P&C Industry						
1990	Oil Price Shock	Low	Low	Med.	Med.	Low						
2001	Tech Bust	High	Med.	Med.	Med.	High						
08-'09	Mortgage Bust	Low	Low	High	High	Low						
2020	Coronavirus Pandemic	Low	High	High	High	???						



Balance Sheet of the U.S. P&C Industry - 2019

<u>Assets</u>		Liabilities and Surplus	
Invested Assets	85%	Loss Reserves	26%
Premiums Receivable	9%	Loss Adj. Expense Reserves	5%
Reinsurance Recoverable	2%	Unearned Premiums	13%
Other Assets	4%	Other Liabilities	17%
		Policyholders' Surplus	39%
Total Assets	100%	Total Liabilities & Surplus	100%

U.S. P&C Industry figures per S&P Global Market Intelligence (as of 12/31/2019)

Assets = \$2.2 Trillion Loss & LAE = \$680 billion Total Surplus = \$865 billion



The Balance Sheet: Asset Issues

Invested Assets
Premiums Receivable
Reinsurance Recoverable





<u>Largest Asset Classes</u> (% of Invested Assets – YE2019)

- ➤ Bonds (57%)
 - BBB
 - Non-Investment Grade
 - MBS/ABS
 - Privately Placed
 - Longer Maturity
- ➤ Affiliated Stocks (5%)
- ➤ Unaffiliated Stocks (21%)
- > Cash/ST Inv. (6%)
- > Alt. Investments (8%)

<u>Issues</u>

- Duration and Severity of Shut Down
- Degree of Government Support
- > Insurer Exposures
- > Treatment of Realized Losses
- > Treatment of Unrealized Losses
- ➤ Impact of Losses on RBC
- ➤ Impact to Investment Income



The Balance Sheet: Asset Issues

Invested Assets
Premiums Receivable
Reinsurance Recoverable





Premium Receivables

- ➤ In Course of Collection
- > Deferred Premium Not Due
- Accrued Retrospective Premium

<u>Issues</u>

- ➤ Usually Not an Issue, But ...
- > State Governments Have Decreed Forbearance
- ➤ Will All Premiums Be Collected?

Reinsurance Recoverables

On Paid Claims

<u>Issues</u>

- Credit Quality of Reinsurers Can They Pay
- ➤ Coverage Issues Will They Pay?



The Balance Sheet: Asset Issues

Invested Assets
Premiums Receivable
Reinsurance Recoverable



Parlor Game: Potential Investment Loss Impact to U.S. P&C Industry Surplus from Current Pandemic Crisis

		As a % of Surplus											
	Investment	Grade Bonds	BIG				Sto	cks					
	Class 1	Class 2	Class 3-6	MBS/ABS	Privates	Munis	Affiliated	Unaffil.	Sch. BA	Total			
As % of Surplus	105%	21%	6%	31%	22%	44%	11%	46%	17%				
% Impairment (?)	0.4%	1.1%	15.0%	5.0%	2.0%	2.0%	5.0%	15.0%	5.0%				
Total % Impaired	0.5%	0.2%	0.9%	1.5%	0.4%	0.9%	0.6%	6.9%	0.9%	12.8%			
Surplus Decline (\$BB)	3,982	1,979	7,443	13,279	3,714	7,570	4,900	59,713	7,375	109,955			

U.S. P&C Industry Surplus Declines: U.S. P&C Industry 2019 PT Operating Earnings = \$52.2 billion

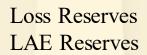
2001 = -7.7%

2008 = -12.7%

2020 = -13.7? (surplus impairment on investments and loss reserves, less last year's net income)



The Balance Sheet: Liability Issues







Lines of Business At Risk (% of Loss & LAE – YE2019)

- \triangleright BI (CMP, Fire & Allied 9.0%)
- \triangleright Workers Compensation (21.4%)
- \triangleright Other Liability (20.2%)
- ➤ D&O (Other Liability)
- ➤ Medical Malpractice (4.1%)
- > Event Cancellation (Inland Marine)
- Cyber Insurance (Other Liability)
- ➤ Media & Entertainment Coverages
- Surety
- ➤ Trade Credit Insurance (0.1%)
- ➤ Travel Insurance (Inland Marine)
- > Accident & Health
- ➤ Mortgage Insurance (0.5%)

Issues

- ➤ Insurer Exposures (By Line/Geography/ Bus. Sector)
- > Severity & Frequency of Loss
 - "Offsets"
- ➤ Coverage Disputes
 - Legal Costs (Litigation)
- Regulatory/Legislative Actions
 - Forced Coverage
 - Blanket Immunity
- Reinsurance Disputes
 - 14% of Gross Premiums Ceded to 3rd Party Reinsurers in 2019



The Balance Sheet: Liability Issues



Parlor Game: Potential Reserve Loss Impact To U.S. P&C Industry Surplus from Current Pandemic Crisis

	Reserve	Liabilities			
	Loss	Loss LAE		Total	
As % of Surplus	65%	14%	13%		
% Impairment (?)	8.5%	8.5%	2.0%		
% of Surplus Impaired	5.5%	1.2%	0.3%	7.0%	
Surplus Decline (\$BB)	47,606	10,165	2,237	60,008	

Initial Industry Loss Estimates:

- 1. \$40 billion \$80 billion in claims (Dowling & Partners)
- 2. \$60 billion (UBS)
- 3. Evan Greenberg "Tens of billions in claims"
- 4. John Neal "Tens of billions, if not hundreds of billions."

U.S. P&C Industry Surplus Declines:

2001 = -7.7%

2008 = -12.7%

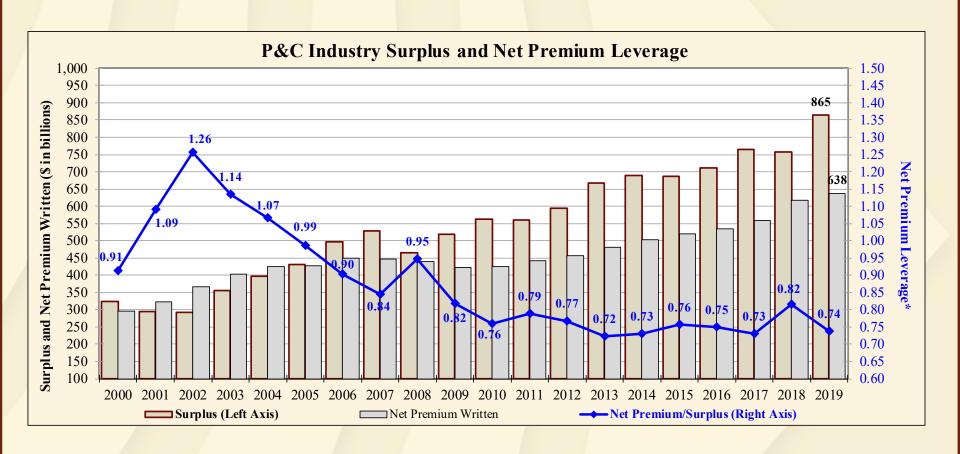
2020 = -13.7? (surplus impairment on investments and loss

reserves, less last year's net income)

U.S. P&C Industry 2019 PT Operating Earnings = \$52.2 billion



The Balance Sheet: Surplus



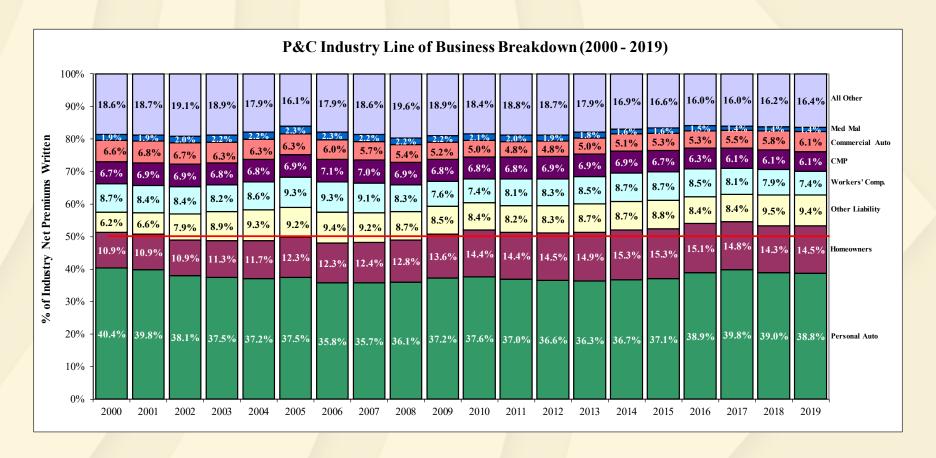
CHANGE IN SURPLUS



- Net Income
- Unrealized Capital Gains/Losses
- ➤ Surplus Paid In/Paid Out



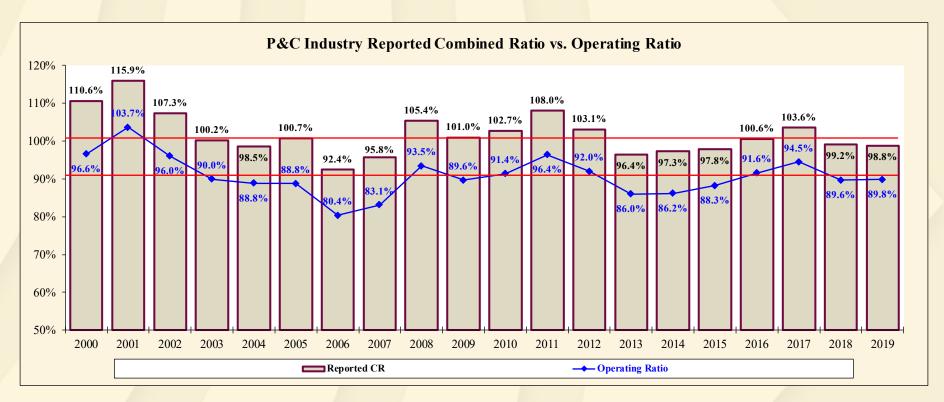
Income Statement - Net Written Premiums



Per S&P Global, U.S. P&C industry net written premiums were \$638 billion for 2019, up 3.2% from 2018. 15 Year Avg. Mix is 51% PL / 49% CL



Income Statement – U/W & Operating Profitability

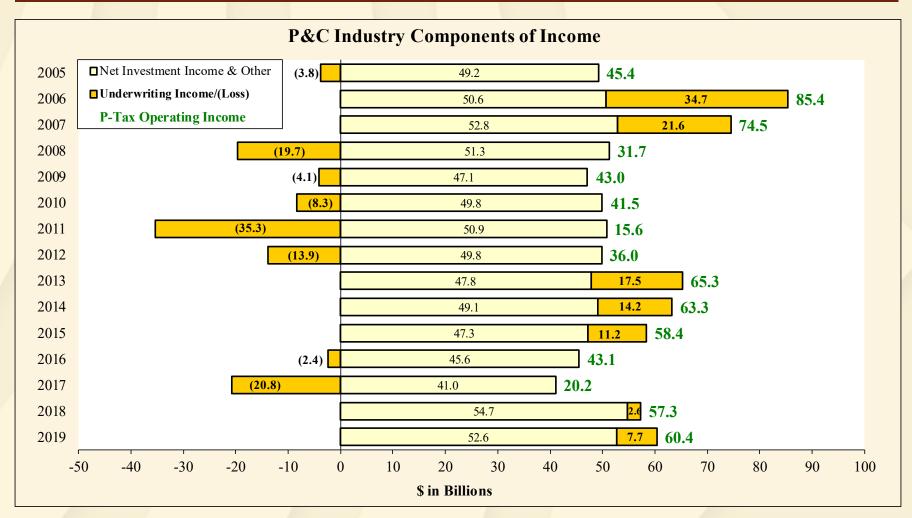


15 Year Average Reported Combined Ratio = 100.2%; 15 Year Average Operating Ratio = 89.4%

15 Year Average Benefit of Net Investment Income = 10.9 points; range = 9.0 – 11.6 points. (2019 = 9.0 points = a cyclical low)



Income Statement – Operating Profitability



Key Takeaways:

Underwriting profits in 7 of the past 15 years. 2004 was the first year of underwriting gain since the mid-1970s. Investment income still represents the vast majority – if not all – of industry operating profits.



Income Statement: Near Term Impacts

- ➤ Premiums Fall (or are Returned/Reduced), but Losses Also Decline Due to Lack of Economic Activity
- ➤ Loss Ratios Should Not Be Severely Impacted In the Short Term
 - It will take time for some potential claims to be litigated
 - Insurers do not yet know what type of strengthening may be needed, if any
- ➤ Insurers Will Closely Watch Expenses
- ➤ Investment Income Will Continue to Be Under Pressure
- ➤ Chubb's Greenberg calls the present crisis an "earnings event" (not surplus event) for his company.



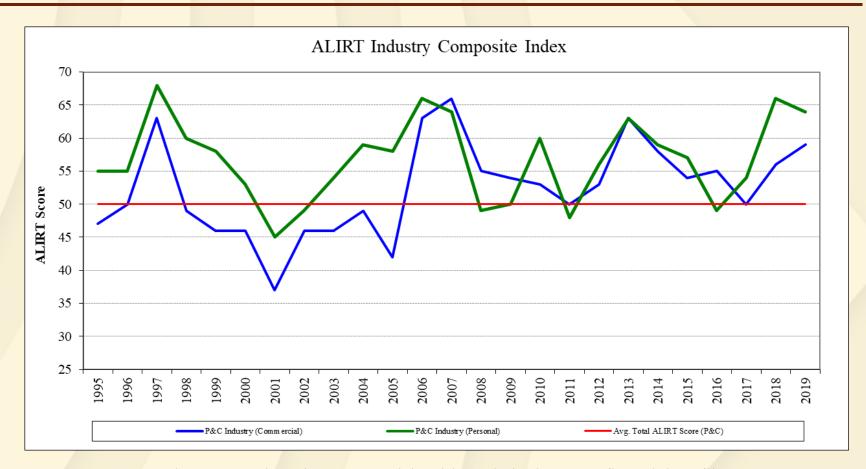
Insurer Actions

Actions to Bolster the Income Statement and Balance Sheet

- > Underwriting Changes
 - Higher Rates (if possible)
 - Business Lines Exits
 - Lower Limits
 - Tighter Terms & Conditions
- > Utilize More Reinsurance
 - Quota Share
 - Excess of Loss/Catastrophe
 - Loss Portfolio Transfers
- > Capital Raising
 - Equity
 - Debt
- > Draw Down Bank Lines of Credit



Industry Results: ALIRT Composite



U.S. P&C Industry came into the current crisis with a relatively strong financial profile.

The 2008-2009 Great Recession did not severely impact the P&C Industry as it did not coincide with the fall-out from a soft market cycle.

The recession of 2000-2001 coincided with the end of a deep and protracted soft market.

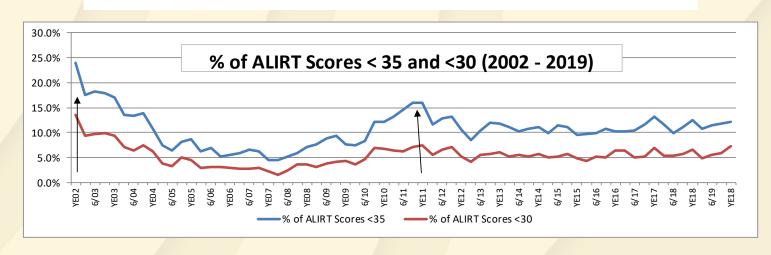


Industry Results: ALIRT Composite

Exhibit 4
US P/C Impairments Through the Period, 2000-2018

	2000-2005	2006-2010	2011-2015	2016-2018	Total
Workers' Compensation	52	16	20	6	94
Personal Lines	43	23	30	10	106
Commercial Lines	35	14	22	7	78
Medical Professional Liability	17	1	4	6	28
Title	3	7	4	0	14
Warranty	1	4	5	0	10
Financial / Mortgage Guaranty	0	2	6	0	8
Surety	6	1	4	2	13
Other	4	4	5	1	14
Total	161	72	100	32	365

Source: AM Best data and research



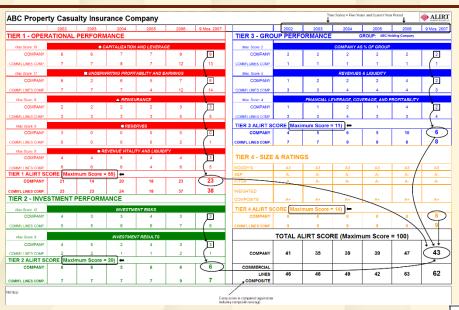


Program Insurers ALIRT Results - Break Down

Ownership Type	# in TMPAA Universe
U.S. National Groups	5
Large U.S. Specialty	9
Small/Medium U.S. Specialty	14
Bermuda	7
Lloyds	13
Reinsurer-Owned	7
Fronting	3
Other	2
Total	60



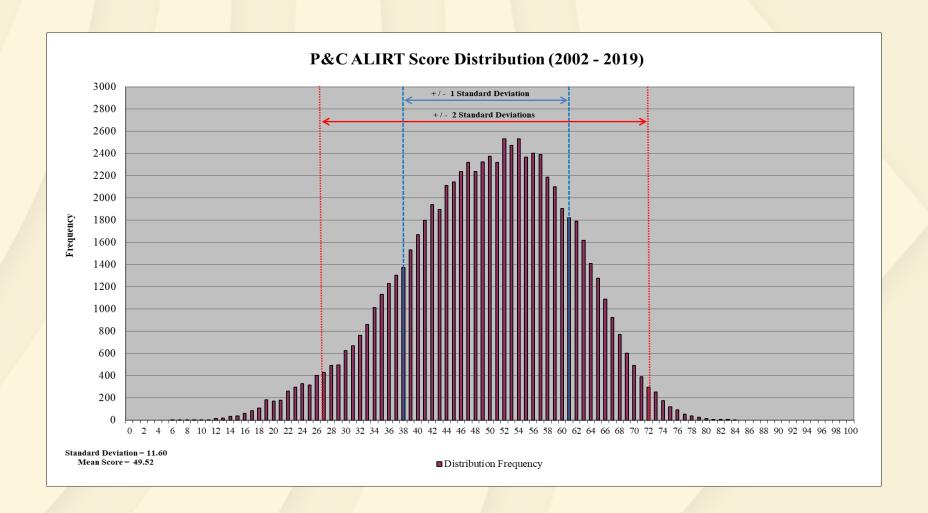
Program Insurers - Sample ALIRT Analysis



VEAL SURPLUS SURPLUS SURPLUS CAPITAL STABILITY PREMIUM LOSS EVENISE COMBINED CAPITAL C		ALIRT INSURANCE RESEARCH P&C FINANCIAL STRENGTH RATIOS														
COMPAND CONTRICT					AB	C Prop	erty C	asualty	y Insu	rance	Comp	any				
TOTAL SUR BUS SUR LOSS SUP LOSS EVEN COMBINED							TIER 1	- OPERA	ATIONAL	RISK						
TOTAL SYR BASED SURPLUS GROSS NET LOSS EVENUE COMBINED COMB		◆ CAPITALIZATION AND LEVERAGE							UNDE	RWRITING P	ROFITABILI	TY AND EAR	NINGS		▲ REINSU	RANCE
2003 6,046 2% 146% 58.7% 1.77 1.22 117% 31% 146% 100% 100% 63% 5.27% 3.0 143% 2006 6,743 6 % 160% 60.9% 1.35 1.00 94% 29% 124% 107% 50% 5.2% 3.0 143% 2006 2,60% 6,743 6 % 160% 60.9% 1.35 1.00 94% 29% 124% 107% 50% 5.2% 3.0 143% 2006 2,60% 6.3% 8.3% 1.15 0.0% 64% 29% 124% 107% 50% 5.2% 3.5 113% 2006 2,60% 6.3% 1.3% 1.00 0.79 6.2% 29% 124% 107% 50% 5.2% 3.0 143% 1.2%	YEAR	SURPLUS	SURPLUS	BASED- CAPITAL	STABILITY	PREMIUM	PREMIUM	LOSS RATIO			COMBINED		RETURN ON EARNED	DIVERSIF-	REINS. RECOVER./	CEDED AS % OF GROSS PREM'S
2006 6,815 2% 170% 53.0% 1.35 1.03 76% 27% 106% 105% 55% 3.0 1.33% 3.0 1.33% 2.000 7,939 66% 166% 54.7% 1.11 0.68 61% 26% 106% 105% 55% 5.2% 3.5 1.13% 3.0 75% 2.000 7,939 66% 166% 54.7% 1.11 0.68 61% 26% 106% 106% 55% 13.3% 3.0 75% 75% 2.000 2.2% 2.0% 111% 104% 75% 2.0% 10.0% 75% 1.03%																18%
2000 7,939 66% 189% 54.7% 1.11 0.86 61% 22% 29% 101% 106% 75% 13.3% 3.0 75% 13.3% 3.0 75% 13.3% 3.0 75% 13.3% 3.0 75% 13.3% 3.0 75% 13.3% 3.0 75% 13.3% 3.0 75% 13.3% 3.0 75% 13.3% 3.0 75% 13.3% 3.0 75% 13.3% 3.0 75% 13.3% 3.0 75% 13.3% 3.0 75% 13.3% 3.0 75% 13.3% 3.0 75% 13.3% 13.3% 3.0 75% 13.3% 13.3% 3.0 75% 13.3% 13.3% 3.0 75% 13.3% 13.	2004	6,815	2%	170%	53.0%	1.35	1.03	78%	27%	106%	102%	89%	5.2%	3.0	143%	30% 15%
TIER 1 - OPERATIONAL RISK (continued)	2006	7,939	69%	188%	54.7%	1.11	0.86	81%	28%	109%	106%	83%	13.3%	3.0	75%	13% 11% N/A
TIER 1 - OPERATIONAL RISK (continued) TIER 2 - INVESTMENT RISK	COMMER'L															9%
COMMET. COMM																
COMPATAL A 67 PRS OF ONE YEAR RESERVES A12 TOWN FREERING OPERATING UNDERWRITE S. CHANGE TOTAL UNDERWRITE	\vdash	•	RESERVES		• REVE	NUE VITALIT	Y AND LIQU	IDITY		INV	ESTMENT R	ISKS		INVESTI	IENT PERFO	RMANCE
Year Received Tourney Tourne		LONG-TAIL RESERVES/	LAST 5 WITH	RESERVE			% CHANGE	TOTAL			GRADE		MATURITY TRAD.			TOTAL RETURN
2000 83.4% 1 38.6% 120.3% 101.4% 2.5% 95% 7% 52% 21% 94% 12.5\$ 5.3% 6.26% 2.0% 6.8 6		RESERVES		TO SURPLUS	RATIO	RATIO	PREMIUMS	LIQUIDITY	SURPLUS	SURPLUS	SURPLUS	SURPLUS	(YEARS)	ON BONDS	ASSETS	ASSETS
2005 61.4% 1 15.3% 171.2% 133.5% 4.5% 799.4 10% 49% 20% 20% 107% 152.00 4.89% 671% 51.20 4.89% 671% 51.20 4.89% 671% 51.20 4.89% 671% 51.20 4.89% 671% 51.20 4.89% 671% 51.20 4.89% 671% 51.20 4.89% 671% 51.20 4.89% 671% 51.20 4.89% 671% 51.20 4.89% 671% 51.20 4.89% 671% 51.20 4.89% 671% 51.20 4.89% 671% 51.20 4.89% 671% 51.20 4.89% 671% 51.20 4.89% 671% 51.20 4.89% 671% 51.20 4.89% 671% 51.20 671% 51.20 671% 6	2003		1													3.14% 6.50%
STATUTOR INS CO. STATUTOR IN																8.24% 5.64%
STATUCK No. 0.45 141.25 144.55 144.55 144.55 145.55 1.45 144.55																7.01% 4.67%
STRATEGIC VALUE FINANCIAL FLEXIBILITY & LOUIDITY		81.2%	0	-0.4%	141.2%	114.5%	1.8%	141%	30%	51%	4%	34%	7.64	4.31%	4.40%	7.02%
STATUTORY INS. CO. AS A NO. F. TOTAL OFFENDATION STOCK ASSETS AS ENGINEER SUPPLUS FIGURE 1. 17.10 A. 17.11			TIER:	3 - FINAN	ICIAL RI	SK - HOL	DING C	OMPAN	(ANAL)	/SIS			TIER	4 - SIZE	& RATII	NGS
STATUTOR IN S. CO. AS A TA OF TOTAL OFFICIAL PROPERTY CO. AS A TA OF TOTAL OFFICIAL PROPERTY CO. ASSETT TOTAL PROPERTY CO. ASS		STRATEG	IC VALUE		FINANCIAL F	LEXIBILITY	& LIQUIDITY		LEVERAGE	E, COVERAG	E, AND PRO	FITABILITY				
Veal		AS A	% OF		CHANGE IN			ASSETS AS		CHANGE IN PRETAX						WEIGHTED
2003 50.5% 67.5% 11,716 4.6% 15.0% 60.2% 56.1% 21.3% NA -17.3 2.56% 7,40.3 5.929 34.569 A- 2004 54.7% 74.0% 9.930 -1.52% 16.2% 74.4% 60.2% 45.5% NA 3.3 5.5% 7,20.8 6.85 34,212 2005 61.1% 75.3% 9.862 -0.7% 22.0% 93.6% 64.5% 18.6% 67% 11.8% 6.73 6.212 35.913 A- 2006 63.4% 81.3% 10.376 5.2% 21.7% 112.0% 68.7% 69.7% 91 17.1% 68.00 6.00 6.079 38.198 8/2007 67.2% 81.5% 9.960 -4.0% 9.5% 105.6% 69.2% 21.3% -1.6% 7.2 13.6% 6.537 5.897 40.375 A-				(\$ MNS.)	REVENUE	REVENUE	BOOK VAL.	ASSETS	RATIO	EARNINGS	COVERAGE	ROE	WRITTEN	EARNED	ASSETS	RATING
2005 61.1% 75.3% 9,862 -0.7% 22.0% 93.6% 64.5% 18.9% 8-7% 1.1 1.8% 6.753 6.212 35.613 A- 2006 63.4% 81.3% 103.76 5.2% 21.7% 112.0% 68.7% 68.7% 19.1 17.1% 6,000 6.079 38.198 9.0007 67.2% 81.5% 9,960 -4.0% 9.5% 105.6% 69.7% 21.3% -1.6% 7.2 13.6% 6.537 5.897 40,375 A- 200MERT.	2003	50.5%	67.5%	11,716	-4.6%	15.0%	60.2%	56.1%	21.3%	N/A	-17.3	-25.6%	7,403	5,929	34,589	A+
9,0007 67.2% 81.5% 9,960 44.0% 9.5% 105.6% 69.2% 21.3% -16% 7.2 13.6% 6,537 5,897 40,375 A+	2005	61.1%	75.3%	9,862	-0.7%	22.0%	93.6%	64.5%	18.9%	-67%	1.1	1.8%	6,753	6,212	35,913	A+
LINES COMP 5.3% 24.2% 4,439 1.9% 20.0% 123.4% 59.0% 23.0% 7% 10.2 22.3% 896 845 3,625 AA-	9/2007															
		5.3%	24.2%	4,439	1.9%	20.0%	123.4%	59.0%	23.0%	7%	10.2	22.3%	896	845	3,625	AA-

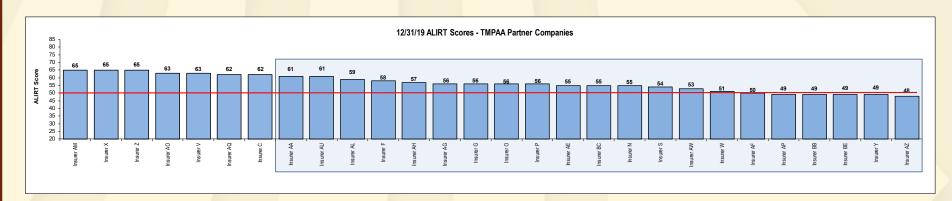


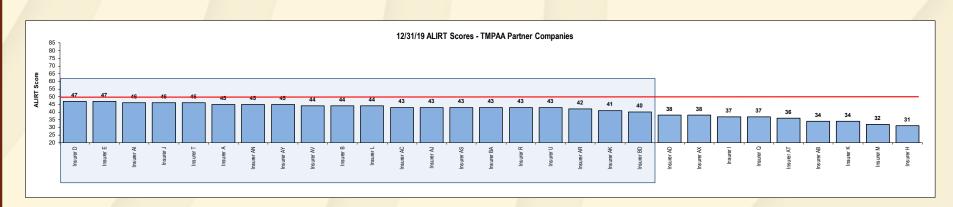
Program Insurers - Historical Distribution of Scores





ALIRT Scores - Program Universe - U.S.





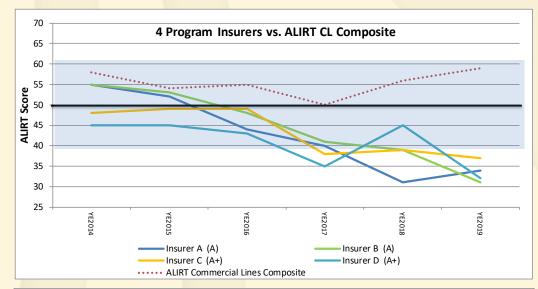


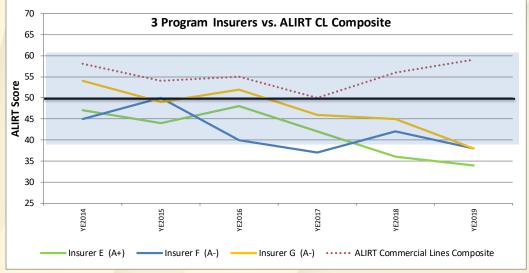
ALIRT Scores - Select Program Carriers



"Heed the tale of the proverbial statistician who drowns in a lake that is three feet deep on average"

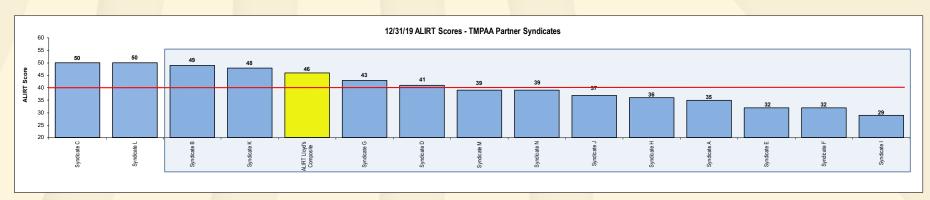
Credit analysts do not just look at averages, but more importantly at the outliers

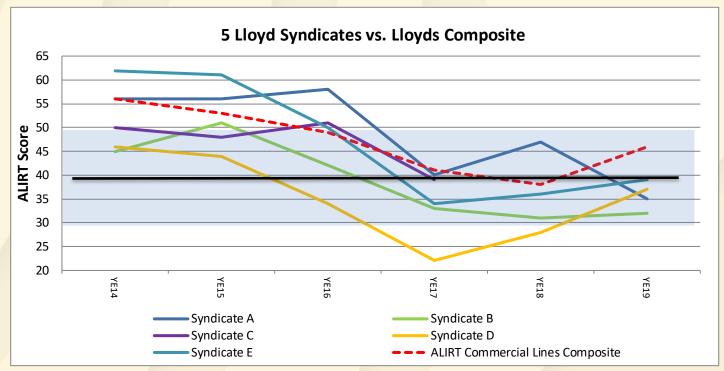






ALIRT Scores - Program Universe - Lloyd's







Conclusions

- Credit Analysis is about tracking an entity's ability to make good on its financial obligations, including an insurer's payment of claims.
- The pandemic has led to a substantially depressed economic activity globally, leading to concerns about the impact on the property & casualty industry.
- The depth and reach of this current crisis will lead to adverse impacts on the U.S. P&C industry's balance sheet, including investment losses and deterioration of loss reserves. If substantial enough these can lead to a reduction in industry surplus.
- Wild cards include potential government mandates on insurers for unexpected claims payments.
- While these losses may be large in aggregate, the industry comes into the period with a strong balance sheet and a decade of decent underwriting and operating performance.
- The financial profile of most insurers in the Program Market, including Lloyd's syndicates, fall within ALIRT's "normal solvent" range.
- While the overall U.S. P&C industry should be able to handle this pandemic shock in stride, individual program insurers entering the crisis with compromised financials should be more closely monitored.





TMPAA Webinar

Covid-19: Potential Impacts on P&C Insurance Carriers and Your Program

Thursday, April 30, 2020

Presented by:
David Paul
Principal, ALIRT Insurance Research

<u>David.Paul@alirtresearch.com</u> (860) 683-2070