

Antitrust Notice

The Casualty Actuarial Society is committed to adhering strictly to the letter and spirit of the antitrust laws. Seminars conducted under the auspices of the CAS are designed solely to provide a forum for the expression of various points of view on topics described in the programs or agendas for such meetings.

Under no circumstances shall CAS seminars be used as a means for competing companies or firms to reach any understanding – expressed or implied – that restricts competition or in any way impairs the ability of members to exercise independent business judgment regarding matters affecting competition.

It is the responsibility of all seminar participants to be aware of antitrust regulations, to prevent any written or verbal discussions that appear to violate these laws, and to adhere in every respect to the CAS antitrust compliance policy.

CAS Ratemaking and Product Development Seminar

Frank Karlinski Sr. VP & Actuary AlU March 9-11, 2009

	No	Segment	tation
	А	В	Total
Price	100	100	100
Policies	50	50	100
Premium	5,000	5,000	10,000
Loss Ratio	70%	50%	60%
Expense Ratio	30%	30%	30%
Profit %	0%	20%	10%
Profit \$	0	1,000	1,000

	No	Wit	h Segment	tation
	Segmentation Total	А	В	Total
Price	100	117	83	90
Policies	100	25	100	125
Premium	10,000	2,917	8,333	11,250
Loss Ratio	60%	60%	60%	60%
Expense Ratio	30%	30%	30%	30%
Profit %	10%	10%	10%	10%
Profit \$	1,000	292	833	1,125

	NoWithSegmentSegment		With Smart Segmentation			
	Total	Total	А	В	Total	
Price	100	90	117	90	96	
Policies	100	125	25	80	105	
Premium	10,000	11,250	2,917	7,200	10,125	
Loss Ratio	60%	60%	60%	56%	57%	
Expense Ratio	30%	30%	30%	30%	30%	
Profit %	10%	10%	10%	14%	13%	
Profit \$	1,000	1,125	293	1,040	1,333	

Direct Marketing P&L Analysis

Initia	<u>umptions</u> al Acquisition		\$10	· ·	sponses	· · · · · · · · · · · · · · · · · · ·)00	
Con	version Rate	1			mber of Polici	es 1,0	000	
Aver	rage Premiur	n		\$500 Los	s Ratio	s Ratio 60%		
Ope	rating Expen	se Ratio		25% Re	ention Ratio	ention Ratio 80%		
			Annual			Cum	ulative	
						Expense	Loss	Combined
Pol Yr	In Force	Premium	Expense	Loss	Profit	Ratio	Ratio	Ratio
1	1,000	500,000	225,000	300,000	-25,000	45%	60%	105%
2	800	400,000	100,000	240,000	35,000	36%	60%	96%
3	640	320,000	80,000	192,000	83,000	33%	60%	93%
4	512	256,000	64,000	153,600	121,400	32%	60%	92%
5	410	205,000	51,250	123,000	152,150	31%	60%	91%

	<u>5 Year Profit</u>	Policies in force
Loss ratio 55%	\$236,000	410
Retention ratio 85%	\$178,000	523
Conversion ratio 25%	\$215,000	512

Direct Marketing P&L Analysis

					Five year	Policies	
	\mathbf{M} arket		Conversion	Retention	cummulative	remaining after	\mathbf{M} arket
Segment	distrib.	Loss ratio	rate	rate	profit	five years	Targeted
A	10%	40%	20%	75%	\$434,000	317	17.5%
В	10%	45%	25%	85%	\$596,000	653	17.5%
С	10%	50%	25%	90%	\$540,000	821	17.5%
D	10%	55%	10%	60%	\$15,000	65	5.0%
E	10%	60%	20%	85%	\$178,000	523	17.5%
F	10%	60%	15%	75%	\$72,000	238	5.0%
G	10%	65%	15%	80%	\$26,000	307	5.0%
H	10%	70%	30%	85%	\$39,000	783	5.0%
I	10%	75%	20%	65%	-\$100,000	179	5.0%
J	10%	80%	20%	82%	-\$187,000	452	5.0%
	100%	60.0%	20.0%	80.0%	\$152,000	410	100%

Targeted Result 54.0% 21.3% 82.2% \$242,000 48	184
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Direct Marketing P&L Analysis

	<u>umptions</u>								
Initia	al Acquisition	Expense	\$10	0,000	Res	ponses	5,0	000	
Con	version Rate	1		20%	Num	ber of Polici	es 1,0	000	
Avei	rage Premiur	m		\$500	Loss	s Ratio 60%		60%	
Ope	rating Expen	ise Ratio		25% Reten			ention Ratio 80%		
			Annual				Cum	ulative	
							Expense	Loss	Combined
Pol Yr	In Force	Premium	Expense	Lo	ss	Profit	Ratio	Ratio	Ratio
1	1,000	500,000	225,000	300,0	00	-25,000	45%	60%	105%
2	800	400,000	100,000	240,0	00	35,000	36%	60%	96%
3	640	320,000	80,000	192,0	00	83,000	33%	60%	93%
4	512	256,000	64,000	153,6	600	121,400	32%	60%	92%
5	410	205,000	51,250	123,0	00	152,150	31%	60%	91%

	<u>5 Year Profit</u>	Policies in force
Loss ratio 55%	\$236,000	410
Retention ratio 85%	\$178,000	523
Conversion ratio 25%	\$215,000	512
Target Segments A, B, C & E	\$242,000	484