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B Specific:
B Specific First Withdrawal by
Owner Attained Age
and Contract Year

## Fixed Indexed Annuity Experience Study

**Policy Years 2016-2018** 





#### Fixed Indexed Annuity Experience Study

Policy Years 2016-2018

## **About the Study**

This joint study sponsored by LIMRA and the Society of Actuaries examines FIA full surrender, withdrawal, and GLWB utilization for experience years 2016-2018.

These factors are studied from the perspective of various owner, rider and product characteristics including "in-the-moneyness" of GLWB guarantees, systematic vs occasional withdrawal activity patterns, and the percentage of maximum GLWB benefit withdrawn. A Project Oversight Group (POG) comprised of actuaries and industry experts provided guidance for the survey design as well as the data analysis and reporting.

#### Confidentiality View Triggered:

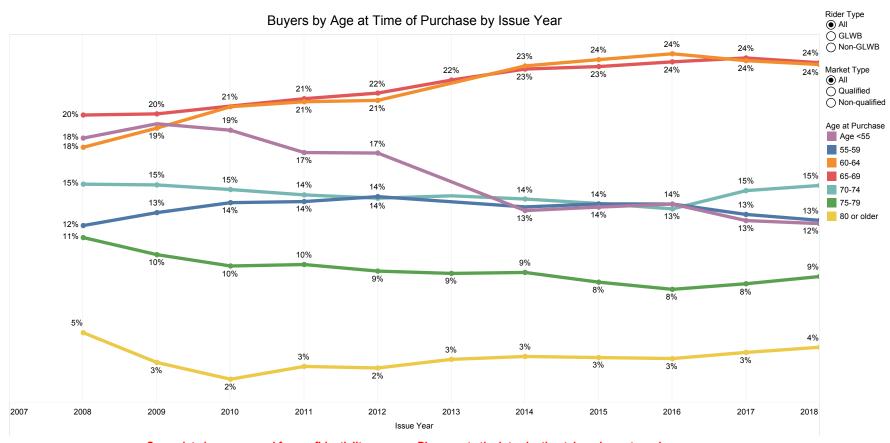
The dashboard has been constructed to blank out cells in a view whenever those cells violate confidentiality safe harbors for this study. This is to prevent the user from being able to identify the experience of any one data contributor.

Questions on content, participation or methodology: ktewksbury@limra.com

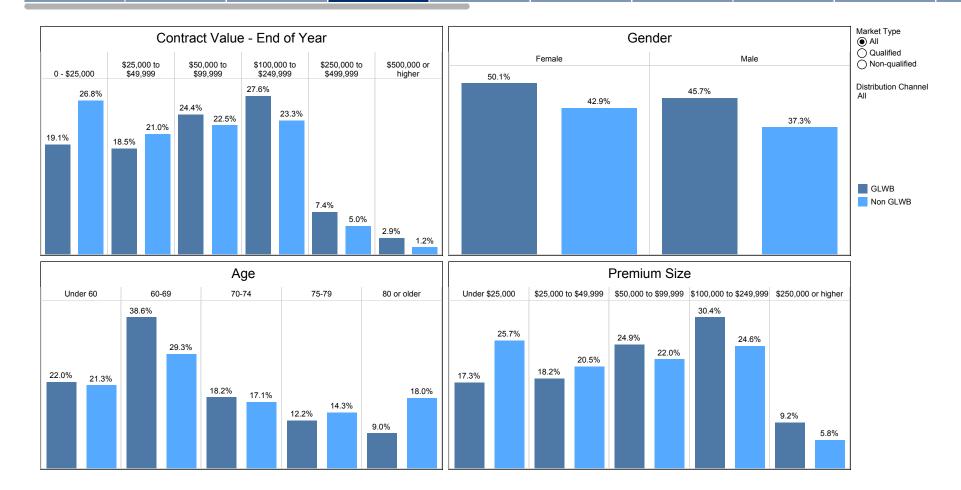
Technical issues: jwilson@limra.com

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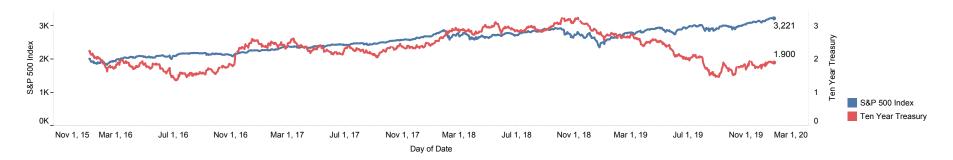
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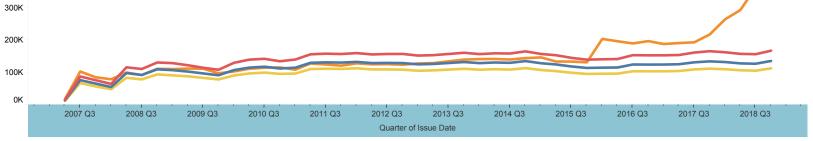


## Equity Market Experience Over the Study Period S&P 500 Price Index/10 Year Treasury Rates, 2016 - 2020 (Q1)



Note: Yahoo Finance

# Withdrawals as a Percentage of Maximum Annual Benefit Amount by Issue Quarter - GLWB Only Measure Names Avg. APV 1.75% Avg. APV 5.75% Avg. APV 5.75% Avg. Contract Value



Actuarial Present Values above shown at discount rate indicated in legend

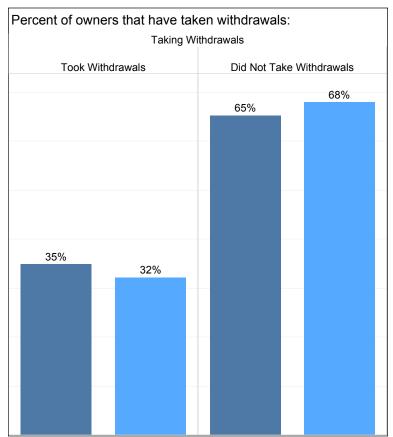
2. Distribution of Business: In Force

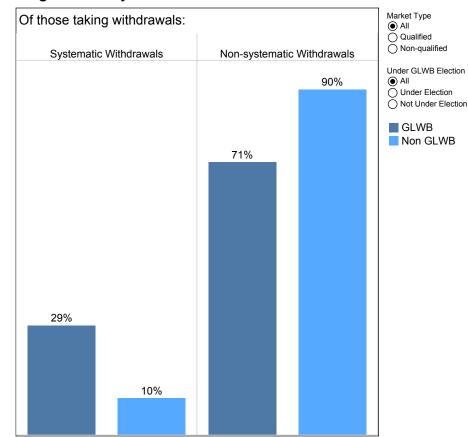
3. Equity Market
Experience Over the

4. Withdrawal Activity: Summary

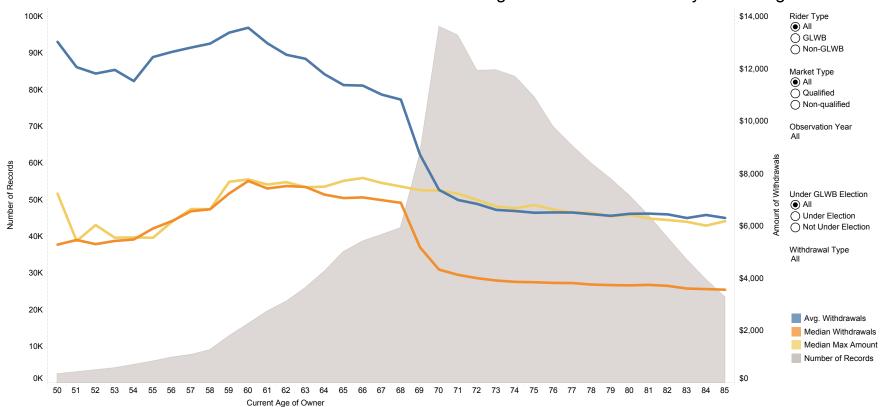
5. Average Amounts Withdrawn - All . GLWB Specific irst Withdrawal by Owner Attained Age nd Contract Year 7. GLWB Specific: Efficiency of Itilization 8. GLWB Specific-Withdrawals as a Percentage of Annual Benefit Maximum by Age 9. G LW B S pec ifi..

## Withdrawal Activity During the Study Period





## GLWB and Non-GLWB Contracts: Median/Avg Withdrawal Amounts by Owner Age



3. Equity Market
Experience Over the
Study Period

4. Withdrawal Activity: Summar 5. Average Amounts Withdrawn - All Contracts

6. GLWB Specific -First Withdrawal by Owner Attained Age and Contract Year

7. GLWB Specific Efficiency of

B. GLWB Specific-Withdrawals as a Percentage of Annual Benefit Maximum by Age 9. GLWB Specific -Ratio of Total Withdrawals to Contract Value and Benefit Base 10. Total Withdrawal Activity by Distribution Channel and Age

Market Type

All
 Qualified
 Non-qualified

Under GLWB Election

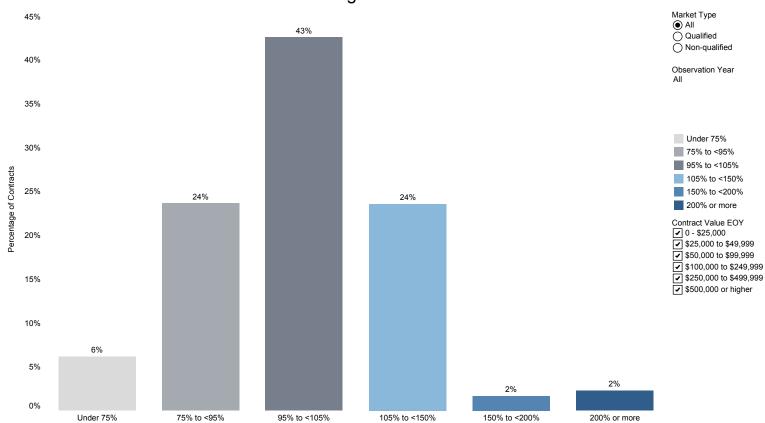
All
 Under Election
 Not Under Election

on ac

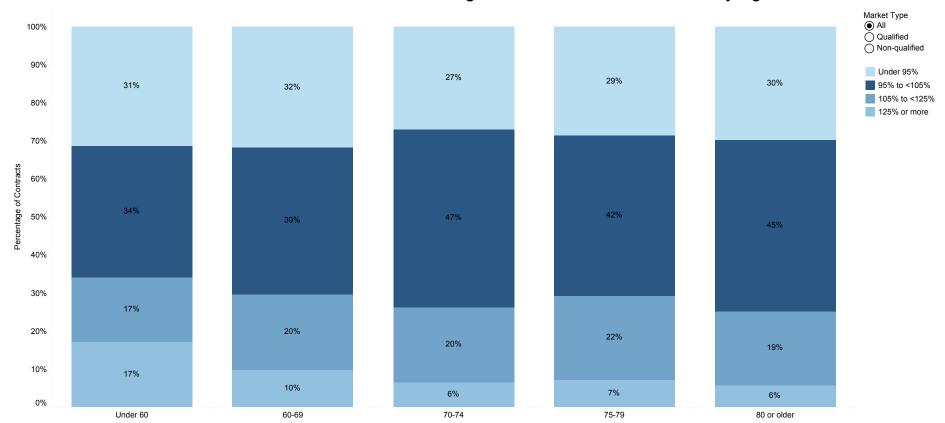
#### First Wtihdrawal During Study by Contract Year & Age

	Didn't Take WD	First WD Prior to Study	1	2	3	4	5	6	7	8	9	10	11
50 or younger	88.85%	6.76%	0.50%	0.67%	0.60%	0.56%	0.42%	0.38%	0.33%	0.29%	0.30%	0.22%	
50 to 54	87.63%	8.61%	0.48%	0.67%	0.59%	0.42%	0.31%	0.28%	0.25%	0.22%	0.25%	0.18%	
55 to 59	87.20%	8.07%	0.49%	0.80%	0.72%	0.62%	0.49%	0.42%	0.33%	0.28%	0.28%	0.19%	
60 to 64	80.72%	10.85%	0.60%	1.44%	1.41%	1.21%	0.91%	0.76%	0.60%	0.53%	0.45%	0.31%	
65 to 69	71.19%	16.34%	0.65%	1.52%	1.67%	1.76%	1.51%	1.43%	1.13%	1.03%	0.83%	0.59%	
70 to 74	37.28%	33.26%	1.60%	2.65%	2.88%	3.17%	3.10%	3.32%	3.19%	3.30%	2.89%	2.05%	
75 to 79	34.50%	37.52%	1.25%	1.99%	1.95%	2.21%	2.21%	2.65%	3.10%	3.71%	3.82%	2.98%	
80 or older	36.76%	38.02%	0.31%	0.78%	1.10%	1.51%	1.76%	2.26%	2.90%	3.67%	4.15%	3.64%	

### GLWB - Withdrawals as a Percentage of Annual Benefit Maximum



## GLWB - Withdrawals as a Percentage of Annual Benefit Maximum by Age

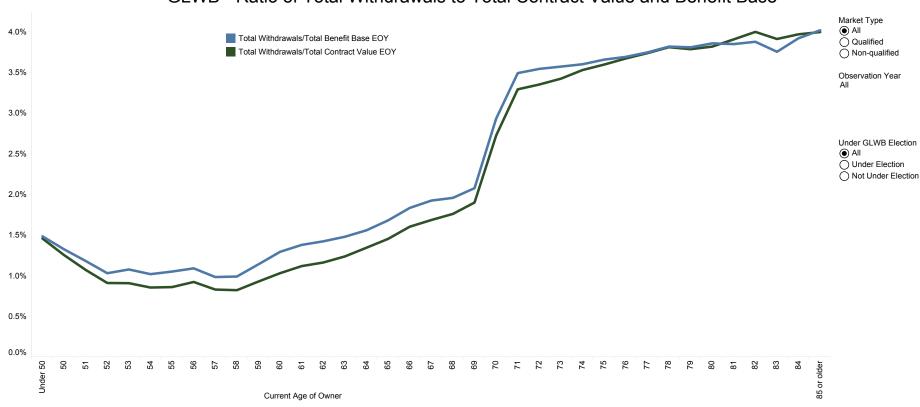


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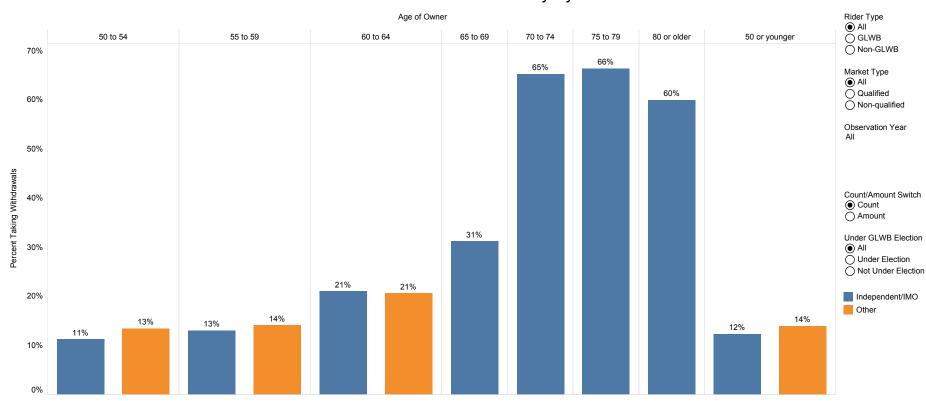
10. Total Withdrawal Activity by Distribution Channe and Age  All Contracts lithdrawal Rates by elected haracteristics 2. GLWB Specific -Average Actuarial Present Value vs. Average Contract /alue by Age 13. GLWB Specific Comparison of In-the-Moneyness Definitions

14. Add itio nal Pr..

#### GLWB - Ratio of Total Withdrawals to Total Contract Value and Benefit Base



## GLWB and Non-GLWB: Withdrawal Activity by Distribution Channel

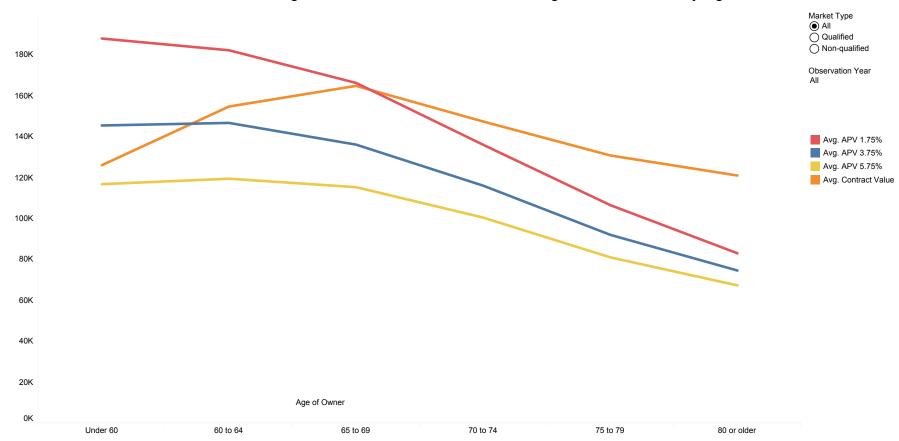


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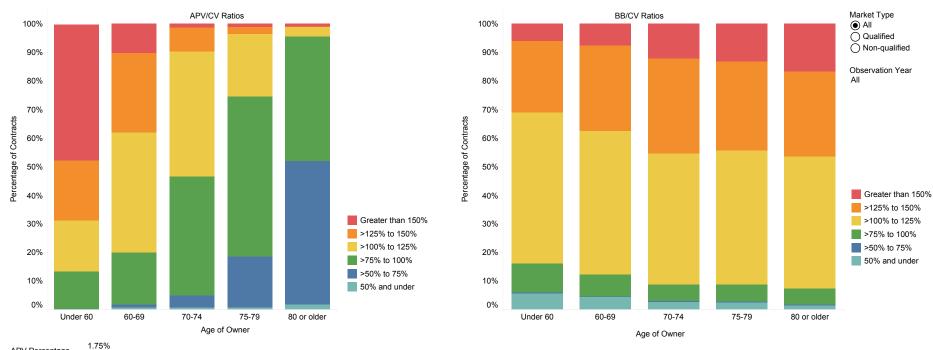
## Withdrawals Rates by Age of Owner

	By Co	<u>bunt</u>	By Amount (C	Contract Value)	Rider Type  All
	Percent of Owners Taking Withdrawals	Percent of Owners Taking Withdrawals Through SWP's	Percent of Contract Value Being Withdrawn	Percent of Contract Value Being Withdrawn Through SWP's	<ul><li>○ GLWB</li><li>○ Non-GLWB</li></ul>
50 to 54	8.36%	0.21%	1.64%	0.05%	Select Breakout  Age of Owner
55 to 59	9.24%	0.40%	1.48%	0.07%	<ul><li>☐ Gender</li><li>☐ Distribution Channel</li><li>☐ Contract Value BOY</li></ul>
60 to 64	14.90%	2.35%	1.86%	0.24%	Market Type
65 to 69	23.18%	6.14%	2.26%	0.50%	All     Qualified     Non-qualified
70 to 74	57.97%	13.87%	3.90%	0.94%	Observation Year All
75 to 79	60.49%	13.73%	4.28%	1.05%	
80 or older	52.97%	11.38%	4.23%	1.03%	
50 or younger	8.48%	0.14%	2.50%	0.06%	
Grand Total	36.02%	7.95%	2.92%	0.61%	

#### GLWB - Average Actuarial Present Value vs. Average Contract Value by Age



#### GLWB - Ratios of APV and Benefit Base to Contract Value



These charts compare the two approaches to ITM:

APV Percentage

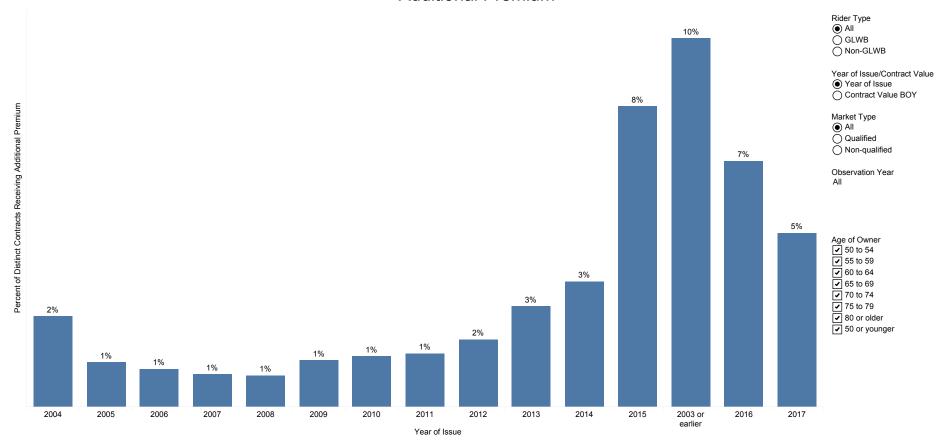
- 1) Ratio of Actuarial Present Value to Contract Value (APV/CV)
- 2) Ratio of Benefit Base to Contract Values (BB/CV)

10. Total Withdrawa Activity by Distribution Channe and Age 11. All Contracts -Withdrawal Rates by Selected Characteristics 12. GLWB Specific -Average Actuarial Present Value vs. Average Contract Value by Age 13. GLWB Specific -Comparison of In-the-Moneyness Definitions 14. Additional Premium 15. Surrender Rates

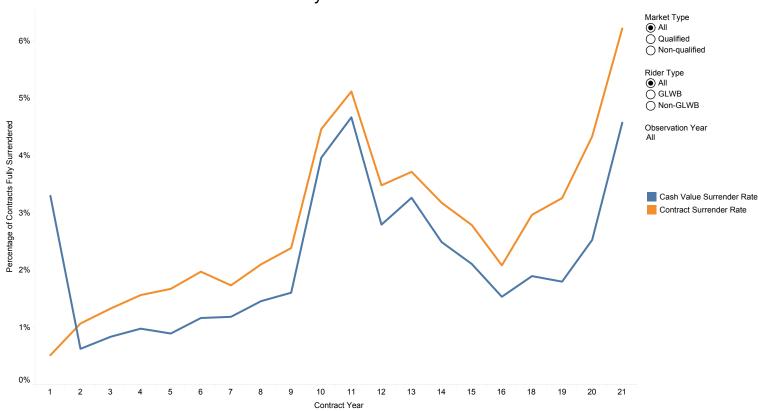
16. GLWB Specific -Surrender Rates by Percent of Annual Benefit Maximum Withdrawn 17. Surrender Rates by Different Contract Characteristics

8. Participant List

#### **Additional Premium**

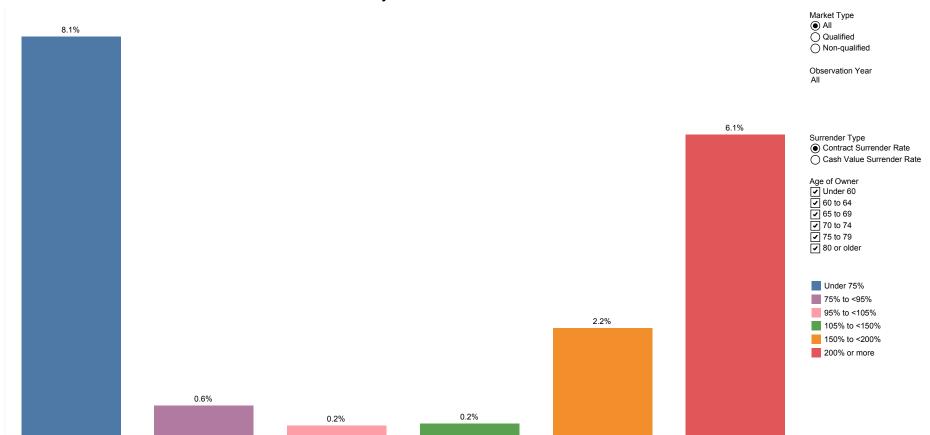


## Surrender Rates by Contract Year



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### GLWB - Surrender Rates by Percent of Annual Benefit Maximum Withdrawn



Year of Issue

Age of Owner
Contract Value BOY
Gender
Distribution Channel
Current Surrender Charge
Premium Bonus Expiry
Benefit Base to Contract Value Ratio

11. All Contracts -Withdrawal Rates by Selected Characteristics 12. GLWB Specific Average Actuarial Present Value vs. Average Contract Value by Age 13. GLWB Specific -Comparison of In-the-Moneyness Definitions 14. Additiona

15. Surrender Rat by Contract Year 16. GLWB Specific Surrender Rates by Percent of Annual Benefit Maximum

17. Surrender Rates by Different Contract Characteristics

Market Type

All

Qualified
Non-qualified

Rider Type

All

GLWB

Non-GLWB

Observation Year

8. Participant List

## Surrender Rates by Different Contract Characteristics

This tab provides a summary of surrender rates by various product and owner characteristics.

#### Surrender Rate in All Markets by Years Until Surrender Charge Expires

	Contract Surrender Rate	Cash Value Surrender Rate
5 or more years until expiry	1.3%	0.9%
4 years until expiry	1.8%	1.0%
3 years until expiry	2.2%	1.3%
2 years until expiry	2.7%	1.6%
1 year until expiry	4.6%	3.7%
Year surrender charge expi	6.6%	6.3%
1 year after expiry	4.1%	3.2%
2 years after expiry	4.3%	3.3%
3 years after expiry	5.3%	4.1%
4 years after expiry	5.6%	4.5%
5 or more years after expiry	2.6%	1.6%

#### Surrender Rate in All Markets by Year of Issue

	Contract Surrender Rate	Cash Value Surrender Rate
2003 or earlier	2.7%	1.9%
2004	3.9%	3.3%
2005	3.6%	3.1%
2006	3.8%	3.3%
2007	4.6%	4.2%
2008	5.0%	4.5%
2009	2.3%	1.6%
2010	1.8%	1.2%
2011	1.8%	1.2%
2012	1.8%	1.2%
2013	1.8%	1.1%

9. GLW B Specific - Rat io of ... 
10. Total Withdrawal Age 
11. All Contracts - Withdrawal Rates by Selected Characteristics 
12. GLWB Specific - Average Actuarial Present Value vs. Average Contract Value by Age 
13. GLWB Specific - Comparison of In-the-Moneyness Definitions 
14. Additional Premium 
15. Surrender Rates by Contract Year Percent of Annual Benefit Maximum Withdrawn 
17. Surrender Rates by Percent of Annual Benefit Maximum Withdrawn 
18. Participant List

## **Participants**

**American Equity** 

Athene

**CNO Financial** 

Group

EquiTrust

Nassau Re

Nationwide

Pacific Life

Sammons

Securian

Security Benefit

Symetra

Western & South..