1. Welcome	2. Introduction	3. Buyer Profiles	4. Buyer Age Analysis 1	5. Buyer Age Analysis 2	6. Owner Profiles	7. Benefit Base/Contract Value Summary	8. Contract Value and Benefit Base by Quarter of Issue	9. Ratio of Benefit Base to Contract Value by Quarter of Issue	10. Average Contract Values and Be
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# Variable Annuity Guaranteed Living Benefits Utilization

## **2016 Experience**

**Guaranteed Minimum Accumulation Benefits (GMAB)** 

A Joint Study Sponsored by the Society of Actuaries and LIMRA

Summary Quarter of Issue Value by Quarter of Issue Value by Quarter of Issue Value by Quarter of Issue Value and Value	1. Welcome2. Introduction3. Buyer Profiles4. Buyer Age Analysis 15. Buyer Age Analysis 26. Owner Profiles7. Benefit Base/Contract Value Summary8. Contract Value and Benefit Base by Quarter of Issue9. Ratio Base to Value by Issue	Benefit 10. ontract Averag Quarter of Contra Values and Be
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Variable Annuity Guaranteed Living Benefits Utilization

2016 EXPERIENCE

## Participants' Report About the Study

LIMRA Secure Retirement Institute and Society of Actuaries Variable Annuity Guaranteed Living Benefit Utilization Study (VAGLBUS) — 2016 Experience is an update of earlier investigations, conducted since 2006.

The study examines the GLB utilization of over 4.9 million contracts that were either issued during or in force as of 2016. Twenty insurance companies participated in this study. These 22 companies made up 67 percent of all GLB sales in 2016 and 69 percent of GLB assets at year-end, and thus provide a substantial representation of this business. Few product innovations have transfigured the variable annuity (VA) industry as much as guaranteed living benefits (GLBs). Evolving from simple income benefits over a decade ago, they are now offered in a variety of forms on the vast majority of VA products sold today.

Research on GLBs generally focuses on sales and elections rather than on how annuity owners actually use their benefits. However, knowing more about benefit utilization — as well as the connection with behaviors such as persistency — can assist insurers with assessing and managing the long-term risks of these GLBs.

Note that confidentiality rules have been applied to the results displayed in all of the tabs in this report in order to ensure that no individual company data can be inferred by the users.

Click on the tabs at the top of the screen to move between pages. The buttons and menus on the right side of each screen allow you to filter results.

Access to this information is a benefit of LIMRA and SOA membership. ©2019 LL Global, Inc. and Society of Actuaries

Guaranteed minimum accumulation benefit (GMAB) riders in variable annuities (VAs) guarantee that the contract owner will receive a minimum amount of the principal after a set period of time or waiting period — either the amount initially invested or the contract value with a locked-in guaranteed rate, or market gains locked in during the waiting period. The rider guarantees protection of the investment's value from a down market. The GMAB typically provides a one-time adjustment to the contract value on the benefit maturity date if the contract value is less than the guaranteed minimum accumulation value as stipulated in the contract. However, if the contract value is equal to or greater than the guaranteed minimum accumulation value, the rider ends without value and the insurance company pays no benefits.

Even though they are one of the simplest living benefits, GMABs differ from other GLB riders in terms of the nature of the guarantee. While GLWBs, GMWBs, and GMIBs offer guaranteed retirement income for life or for a certain period of time (at the owner's discretion), GMABs mainly guarantee protection of investments from market risk. GMABs are also different from other GLBs in terms of the risk posed to the insurer. With GLWBs, GMWBs, and GMIBs, the contract owner must choose to utilize the benefit. With GMABs, insurers are obligated to provide the guaranteed benefit to all GMAB owners where the guaranteed benefit base exceeds the contract value on their maturity date. This makes it even more important for companies to scrutinize the persistency patterns of contracts with these benefits.

2008	Average 51	Lower Quartile	Median 51	Upper Quartile 59	Select Breakout Issue Year Gender Market Type Cost Structure
2009	51	44	52	59	O Premium Size
2010	53	44	53	61	
2011	54	47	55	62	
2012	55	48	56	62	
2013	55	47	55	62	
2014	55	48	56	63	
2015	56	50	57	63	

1. Welcome	2. Introduction	3. Buyer Profiles	4. Buyer Age Analysis 1	5. Buyer Age Analysis 2	6. Owner Profiles	7. Benefit Base/Contract Value Summary	8. Contract Value and Benefit Base by Quarter of Issue	9. Ratio of Benefit Base to Contract Value by Quarter of Issue	10. Average Contract Values and Be
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## Percentage of Buyers Over Age 60 at Time of Purchase



Some issue years are suppressed due to confidentiality safe harbors.



Qualified buyers continue to be generally younger than non-qualified buyers. Both types of business continue to shift gradually to older ages at purchase.

el Summary Quarter of Issue Value by Quarter of Base Issue	4. Owner Profiles7. Benefit Base/Contract Value Summary8. Contract Value and Benefit Base by Quarter of Issue9. Ratio of Benefit Base to Contract Values and B Base to Contract Value by Quarter of Issue10. Average to Values and B Base Values and B Base	ntract 11. R efit atio of B enefi t Ba.
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## **Owner Profiles**

This tab provides a summary of GMAB owner and contract characteristics at EOY 2016 for contracts issued in 2016 or before and still inforce at the end of 2016.

Based on contracts issued in 2016 or earlier and still in force at EOY 2016, ownership of qualified annuities is largely concentrated in the hands of owners under age 60. Among those owners, three quarters fund their annuities with qualified money. In contrast, half of the owners aged 70 or over fund their GMAB annuities with non-qualified sources.

The table below provides a summary of GMAB owner and contract characteristics at EOY 2016.



	Owr	ner and C	ontract C	haracteris	tics
	Issued Before 2016	Issued In 2016	Overall	Avg. Premium for Contracts Issued in 2016	
60 to 64	18%	18%	18%	\$154,430	Select Breakout Age of Owner Qualified by Age
65 to 69	16%	11%	15%	\$141,530	<ul> <li>Non-qualified by Age</li> <li>Gender</li> <li>Market Type</li> <li>Distribution Channel</li> </ul>
70 to 74	10%	5%	10%	\$149,926	Cost Structure Contract Value EOY
75 to 79	5%	2%	5%	\$156,444	
80 or older	4%	0%	4%	\$143,942	
Age 59 & under	48%	64%	48%	\$105,331	

2. In tr o.	3. Buyer Profiles	4. Buyer Age Analysis 1	5. Buyer Age Analysis 2	6. Owner Profiles	7. Benefit Base/Contract Value Summary	8. Contract Value and Benefit Base by Quarter of Issue	9. Ratio of Benefit Base to Contract Value by Quarter of Issue	10. Average Contract Values and Benefit Base	11. Ratio of Benefit Base to Contract Value by Age	12. 2 016 With draw al A
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## Benefit Base and Contract Value Comparison

Sum Mean Median				Benefit \$15,654,9 \$8 \$8	Base 78,639 86,940 50,000	Contract Value \$17,204,692,640 \$95,546 \$57,032	CV a	s % of BB 110.0% 110.0% 114.0%	Time of Year Beginning of Year End of Year Market Type All Qualified Non-qualified
Pe	rcent of contracts w	here benefit ba 28.7	ase was greater 7%	r than contract v	value:				Age of Owner All
	Historica	I ITM Trend	s by Calend	ar Year					
	2009	2010	2011	2012	2013	2014	2015	2016	
Number of Contracts Issued before Calendar Year	0.37M	0.37M	0.30M	0.27M	0.23M	0.25M	0.22M	0.24M	
Percent of Contracts where Benefit Bases > Contract Values	86%	55%	24%	39%	18%	10%	10%	29%	

At beginning-of-year (BOY) 2016, around 29 percent of contracts had a benefit base greater than the current contract value. The average GMAB contract value exceeded the average benefit base by 10 percent in total with the non-qualified ratio slightly lower than qualified at 9 percent vs. 10 percent respectively.

In 2016, the S&P 500 increased by 10 percent (excluding dividends). By EOY 2016, the average GMAB contract value was relatively flat, while the average benefit base fell 4 percent. As a result, in aggregate, only 18 percent of the GMAB contracts had benefit bases that were greater than the contract values at EOY.



Source: Oxford Economics



5. B u ye r	6. Owner Profiles	7. Benefit Base/Contract Value Summary	8. Contract Value and Benefit Base by Quarter of Issue	9. Ratio of Benefit Base to Contract Value by Quarter of Issue	10. Average Contract Values and Benefit Base	11. Ratio of Benefit Base to Contract Value by Age	12. 2016 Withdrawal Activity	13. Withdrawal Activity by Source of Funds and Age of Owner	14. Systematic Withdrawal Activity	15. A vera ge W ithdr awa
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## Average Contract Values and Benefit Base



For GMAB contracts that incurred withdrawals in 2016, the average benefit base balance dropped 17 percent during the year. For contracts that did not take withdrawals during the year, the average benefit base remained flat. The average contract value remained flat over the year. Those contracts that did not take withdrawals show an average contract value increase of 3.3 percent while contracts taking withdrawals saw an average contract value decrease of 9.7 percent.

6. 7. Benefit O Base/Contrac w Summary n e	8. Contract Value and Benefit Base by Quarter of Issue	9. Ratio of Benefit Base to Contract Value by Quarter of Issue	10. Average Contract Values and Benefit Base	11. Ratio of Benefit Base to Contract Value by Age	12. 2016 Withdrawal Activity	13. Withdrawal Activity by Source of Funds and Age of Owner	14. Systematic Withdrawal Activity	15. Average Withdrawal Amount by Withdrawal Type	16. With draw al Ra tes
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## Ratio of Benefit Base to Contract Value by Age

We have expanded the analysis of BB/CV ratios to drill down on age or age cohorts to see if any risks can be linked to BB/CV ratios by age. This analysis shows that the BB/CV ratios differ by age, and provides insights related to risks associated with each age or age cohort and comparisons within the GMAB industry.

At BOY 2016, at age 60, 55 percent of contracts had a BB/CV ratio less than 100 percent while at age 80, 70 percent of contracts had a BB/CV ratio at less than 100 percent. And the percentages below 100 percent increased from BOY to EOY 2016.



Age of Owner

3 1 9	8. Contract Value and Benefit Base by Quarter of Issue	9. Ratio of Benefit Base to Contract Value by Quarter of Issue	10. Average Contract Values and Benefit Base	11. Ratio of Benefit Base to Contract Value by Age	12. 2016 Withdrawal Activity	13. Withdrawal Activity by Source of Funds and Age of Owner	14. Systematic Withdrawal Activity	15. Average Withdrawal Amount by Withdrawal Type	16. Withdrawal Rates for Contracts In-the-Money vs. Not-In-the-Money	17. S umm ary c f Wit hdr	1
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#### 2016 Withdrawal Activity

#### Percent of owners who have taken withdrawals in 2016:



Despite the fact that GMAB contracts are not designed for owners to take withdrawals, and withdrawals cause the benefit base to be proportionately reduced, annuity customers do take withdrawals to meet financial needs. For example, customers may take withdrawals for emergencies, or to satisfy RMDs. Among GMAB contracts issued before 2016 and still in force at EOY, 17 percent had some withdrawal activity during 2016, very similar to experience in prior years. For 44 percent of contracts, these withdrawals were systematic withdrawals. This percentage is materially lower than other guaranteed living benefits (GLWB, GMWB and GMIB).

Of those taking withdrawals in 2016:



Withdrawal Type
Systematic Withdrawals
Non-systematic Withdrawals

Market Type All Qualified Non-qualified





Current Age of Owner

10 A ve r	11. Ratio of Benefit Base to Contract Value by Age	12. 2016 Withdrawal Activity	13. Withdrawal Activity by Source of Funds and Age of Owner	14. Systematic Withdrawal Activity	15. Average Withdrawal Amount by Withdrawal Type	16. Withdrawal Rates for Contracts In-the-Money vs. Not-In-the-Money	17. Summary of Withdrawal Rates by Selected Owner and Product Characteristics	18. Additional Premium	19. Net Flows	20. S urre nder Rate s b
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## Average Withdrawal Amount by Withdrawal Type

Average Withdrawal Amount

			Systematic		Occasional					
		Mean		Median		Mean	Median			
	Non-qualified	Qualified	Non-qualified	Qualified	Non-qualified	Qualified	Non-qualified	Qualified		
Under age 60	\$12,675	\$10,944	\$9,179	\$7,613	\$30,721	\$22,047	\$11,669	\$11,400		
Age 60-69	\$11,201	\$12,876	\$6,550	\$8,649	\$26,927	\$24,029	\$10,000	\$11,364		
Age 70 or older	\$8,734	\$6,146	\$5,572	\$3,710	\$19,807	\$11,460	\$9,877	\$5,300		
Grand Total	\$9,661	\$7,876	\$6,000	\$4,670	\$25,563	\$19,081	\$10,000	\$9,000		

The average amount of withdrawals for GMAB qualified contracts was \$7,876 for those taking systematic withdrawals and \$19,081 for those taking occasional withdrawals. This data is based on contracts issued before 2016 that were in force at EOY 2016. Some owners in their 50s and 60s took average withdrawals of more than \$25,000 from their contracts.

Since these withdrawals by owners under age 70 were not for RMDs, the withdrawals will reduce the benefit amount on a pro-rata basis. Most of these withdrawals were likely partial surrenders of the contracts. A more reasonable withdrawal pattern and average withdrawal amount emerges for owners over age 70, commensurate with RMD needs.



80% Contract Benefit In-The-Money Contract Benefit Not-In-The-Money 60% 54% 52% 48% 46% 46% 39% 40% 20% 20% 19% 17% 20% 15% 14% 8% 6% 6% 4% 0% 82% 80% Not ITM - BB/CV <=100% ITM - BB/CV = 100% to 125% ITM - BB/CV = 125% to 150% 60% ITM - BB/CV > 150% 48% 47% 46% 42% 47% 40% 39% 41% 40% 25% 19% 17% 20% 18% 8% 14% 6%

Percent of Owners Taking Withdrawals

Percent of Owners Taking Withdrawals

5%

Under 55

0%

6%

55 to 59

60 to 64

65 to 69

70 to 74

75 to 79

80 or older

Overall withdrawal rates for contracts in-the-money are slightly higher than for contracts not in-the-money (20 percent vs 17 percent respectively). The larges difference is seen at onwer ages 75 and above. O Qualified

Withdrawal rates generally increase with owner age, and withdrawal rates increase more dramatically with age as the level of in-the-moneyness increases.

For this tab, we define in-the-moneyness based on the ratio of benefit base to contract value (BB/CV) at the beginning of the experience year.

12 . 2 01 6 .	13. Withdrawal Activity by Source of Funds and Age of Owner	14. Systematic Withdrawal Activity	15. Average Withdrawal Amount by Withdrawal Type	16. Withdrawal Rates for Contracts In-the-Money vs. Not-In-the-Money	17. Summary of Withdrawal Rates by Selected Owner and Product Characteristics	18. Additional Premium	19. Net Flows	20. Surrender Rates by Contract Year	21. Surrender Rates by Timing of Surrender Charge Expiry	22. S urre nder Rate s b
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## Withdrawal Rates by Selected Characteristics

	Unweighte		Weighted by BOY 2016 Contract Value					
Gender	Percent of Owners Taking Withdrawals	Percent of Owners Taking Withdrawals Through SWP's	Percent of Owners Taking Withdrawals	Percent of Owners Taking Withdrawals Through SWP's				
Male	17%	8%	22%	10%				
Female	17%	7%	21%	9%				
Age of Owner								
Under 50	5%	0%	7%	0%				
50 to 54	6%	0%	8%	1%				
55 to 59	8%	1%	10%	2%				
60 to 64	14%	4%	19%	7%				
65 to 69	19%	7%	24%	10%				
70 to 74	45%	26%	47%	26%				
75 to 79	49%	33%	47%	29%				
80 or older	42%	28%	34%	20%				
Market Type								
Non-qualified	12%	5%	15%	6%				
Qualified	19%	9%	25%	11%				
Distribution Channel								
Bank/S&L	20%	11%	22%	12%				
Career Agent	15%	4%	21%	7%				
Direct Response								
Full Service National B-D	15%	8%	17%	10%				
Independent Agent								
Independent B-D								
Contract Value (EOY)								
Under \$25,000	16%	6%	26%	8%				
\$25,000 to \$49,999	16%	7%	19%	8%				
\$50,000 to \$99,999	16%	8%	19%	8%				
\$100,000 to \$249,999	18%	8%	20%	9%				
\$250.000 to \$499.999	22%	10%	24%	11%				
\$500,000 or higher	23%	11%	24%	11%				
0								



Contracts with GMAB riders typically do not allow owners to add premium to the guaranteed portion after the first anniversary. Many contracts have strict provisions to allow additional premium only during the first 90 to 180 days after issue. Therefore we see most additional premium coming in the year of issue.

Among contracts issued in 2015 or earlier:

Issued Before

• For those issued in 2015, 6 percent received additional premium. This is down from 2015 when 9 percent of 2014 issues added premium in 2015.

• Younger owners were generally more likely to add premium than older owners.

4 /s 	15. Average Withdrawal Amount by Withdrawal Type	16. Withdrawal Rates for Contracts In-the-Money vs. Not-In-the-Money	17. Summary of Withdrawal Rates by Selected Owner and Product Characteristics	18. Additional Premium	19. Net Flows	20. Surrender Rates by Contract Year	21. Surrender Rates by Timing of Surrender Charge Expiry	22. Surrender Rates by Surrender Charge Level	23. Surrender Rates based on Timing of Withdrawals	24. urre nde Rate s b.
					Net Flows					
	In-Force	BOY		Dollars (in billio \$25	ons) i.4B	Numbe	er of Contracts 256,419		Average Contract Siz \$99,22	ze 23
	Premium Existing Contracts Received Newly Issued Contracts			\$0.2B \$1.3B			10,607		\$121,5	
	Benefits Annuitiza Paid Death/D Full Surr	ations isability enders		\$0 \$0 \$1	.0B .1B .8B		223 1,362 19,585		\$112,4 \$103,80 \$89,83	15 06 31
	Partial W	/ithdrawals		\$1	.1B					
	Investme	ent Growth		\$0	.5B					
	In-Force	EOY		\$27	.2B		264,442		\$102,73	39

Premium received, new contracts issued, and investment growth outpaced the outflows associated with partial withdrawals, full surrenders, deaths, and annuitizations. The total number of GMAB contracts in force grew by 3 percent during 2016.



Contract Year

16 W it.	17. Summary of Withdrawal Rates by Selected Owner and Product Characteristics	18. Additional Premium	19. Net Flows	20. Surrender Rates by Contract Year	21. Surrender Rates by Timing of Surrender Charge Expiry	22. Surrender Rates by Surrender Charge Level	23. Surrender Rates based on Timing of Withdrawals	24. Surrender Rates by Withdrawal Method	25. Surrender Rates by Level of In-the-Moneyness	26. S urre nder Rate s b
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## Surrender Rates by Timing of Surrender Charge Expiry



Surrender rates among contracts with surrender charges were much lower than in contracts without surrender charges. Irrespective of share classes, the surrender rate for contracts where charges expired in 2015 was 22 percent on a contract basis — over five times the rate of contracts where charges exist (3.2 percent). The contract surrender rate for cases where the surrender charge expired in previous years was 13 percent. Just under two-thirds of GMAB contracts, B-share and L-share combined, were within the surrender charge period in 2016.

Years Since Surrender Charge Period Expired

. Premium by Contract Year by Timing of Surrender Charge Expiry based on Timing of Withdrawals by Withdrawals by Withdrawals by Level of In-the-Moneyness Year Year	ender Rates 27. S fit Maturity urre nder Rate s b
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## Surrender Rates by Surrender Charge Level





## Surrender Rates based on Timing of Withdrawals



Contract Surrender Rate
 Cash Value Surrender Rate

Withdrawals in Analysis Year
 Withdrawals before Analysis Year

Market Type All Qualified Non-qualified

Higher GMAB surrender rates are associated with younger owners, particularly those under age 60 who took withdrawals before or in 2016. Even though younger owners own a significant portion of GMABs, some of them are taking large average withdrawals. It is likely that these younger owners are really taking partial surrenders. Owners under age 60 who took withdrawals in 2016 were also more likely to fully surrender their contracts compared to older owners.

Past withdrawals can also indicate whether younger owners are more likely to fully surrender contracts in the future. The radio button for "Withdrawals before Analysis Year" provides the contract surrender rates for owners who took withdrawals before 2016.

Flows by Contract Year by Timing of Surrender Charge Expiry by Surrender Charge Level bised on Timing of Withdrawals based on Timing of Withdrawals based on Timing of Surrender Charge Level bised on
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## Surrender Rates by Withdrawal Method





19. Net Flows	20. Surrender Rates by Contract Year	21. Surrender Rates by Timing of Surrender Charge Expiry	22. Surrender Rates by Surrender Charge Level	23. Surrender Rates based on Timing of Withdrawals	24. Surrender Rates by Withdrawal Method	25. Surrender Rates by Level of In-the-Moneyness	26. Surrender Rates by Benefit Maturity Year	27. Surrender Rates by Selected Owner and Product Characteristics	28. Product & Benefit Characteristics
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![](_page_25_Figure_1.jpeg)

Many of these GMAB owners may have surrendered the contracts because the contract benefit matured. Benefit maturity may be the driving force for high surrender rates, and this tab provides contract and cash value surrender rates in 2016 by year of benefit maturity. Surrender rates are elevated from benefit maturity years 2017 to 2019 and then slowly decline.

19. Net Flows	20. Surrender Rates by Contract Year	21. Surrender Rates by Timing of Surrender Charge Expiry	22. Surrender Rates by Surrender Charge Level	23. Surrender Rates based on Timing of Withdrawals	24. Surrender Rates by Withdrawal Method	25. Surrender Rates by Level of In-the-Moneyness	26. Surrender Rates by Benefit Maturity Year	27. Surrender Rates by Selected Owner and Product Characteristics	28. Product & Benefit Characteristics

#### Surrender Rates

		Contract Surrender Rate	Cash Value Surrender Rate
	Before 2006	10.2%	8.9%
	2006	19.4%	21.5%
Year of Issue	2007	9.9%	9.7%
Age of Owner Contract Value BOY	2008	10.2%	9.8%
Gender	2009	8.9%	8.9%
Market Type     Distribution Channel	2010	4.9%	4.8%
O Cost Structure	2011	3.7%	2.9%
	2012	2.8%	2.4%
	2013	2.9%	2.4%
	2014	2.0%	2.0%
	2015	1.4%	0.9%

This tab provides GMAB contract and cash value surrender rates for various categories.

Key Findings:

Surrender activity is higher for older contracts and older owners.
There is little difference between persistency in contracts funded by non-qualified and qualified money.
L-share contracts have higher surrender rates than B-share contracts.

19. Net Flows	20. Surrender Rates by Contract Year	21. Surrender Rates by Timing of Surrender Charge Expiry	22. Surrender Rates by Surrender Charge Level	23. Surrender Rates based on Timing of Withdrawals	24. Surrender Rates by Withdrawal Method	25. Surrender Rates by Level of In-the-Moneyness	26. Surrender Rates by Benefit Maturity Year	27. Surrender Rates by Selected Owner and Product Characteristics	28. Product & Benefit Characteristics

## **Product & Benefit Characteristics**

Average Charges and Number of Subaccounts by Issue Year

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Avg. Mortality and Expense Charge	1.28%	1.36%	1.37%	1.35%	1.34%	1.34%	1.38%	1.37%	1.37%	1.23%
Avg. Benefit Fee	0.71%	0.61%	0.72%	0.71%	0.81%	0.88%	0.85%	0.90%	0.97%	1.08%
Avg. Num Subaccts	74	78	76	73	61	56	55	62	59	59
Avg. Maximum Owner Age at Election	80	80	80	80	80	78	79	81	81	80

Product Features – Distribution by Issue Year

	2008	2009	2010	2011	2012	2013	2014	2015	Product has fixed account
No	8%	10%	9%	12%	14%	15%	12%	8%	O Product still available as of EOY
Yes	92%	90%	91%	88%	86%	85%	88%	92%	Rider still available as of EOY
									Cap on benefits
									Asset allocation restrictions
									Step-up availability
									O Impact on benefit base if excess withdrawais are taken