

Life Insurance Update

Presented by
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Caveats and Limitations

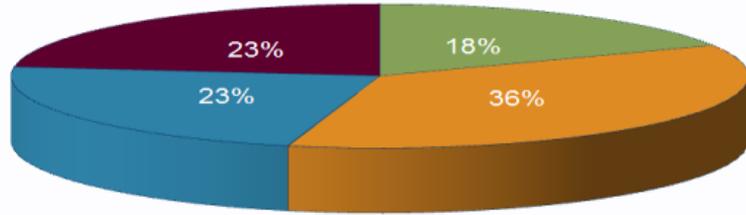
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Agenda

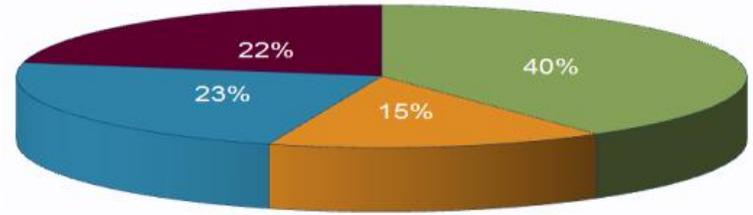
- Market update and product trends
- Continuing impact of low interest rates
- Indexed Universal Life Illustrations
- Life Principles Based Reserves / VM-20
- Rector Report / Actuarial Guideline 48
- Fixed Annuity PBR / VM-22

Life Market Share: History

2000

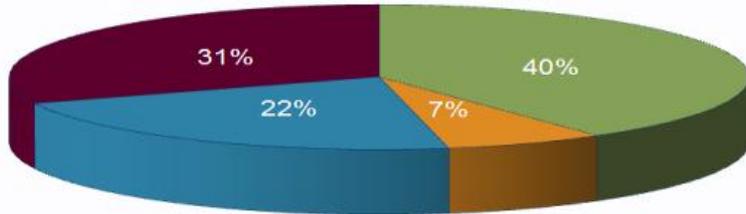


2006

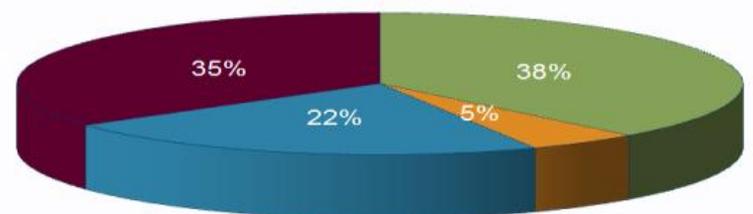


■ UL ■ VUL ■ Term ■ Whole Life

2011

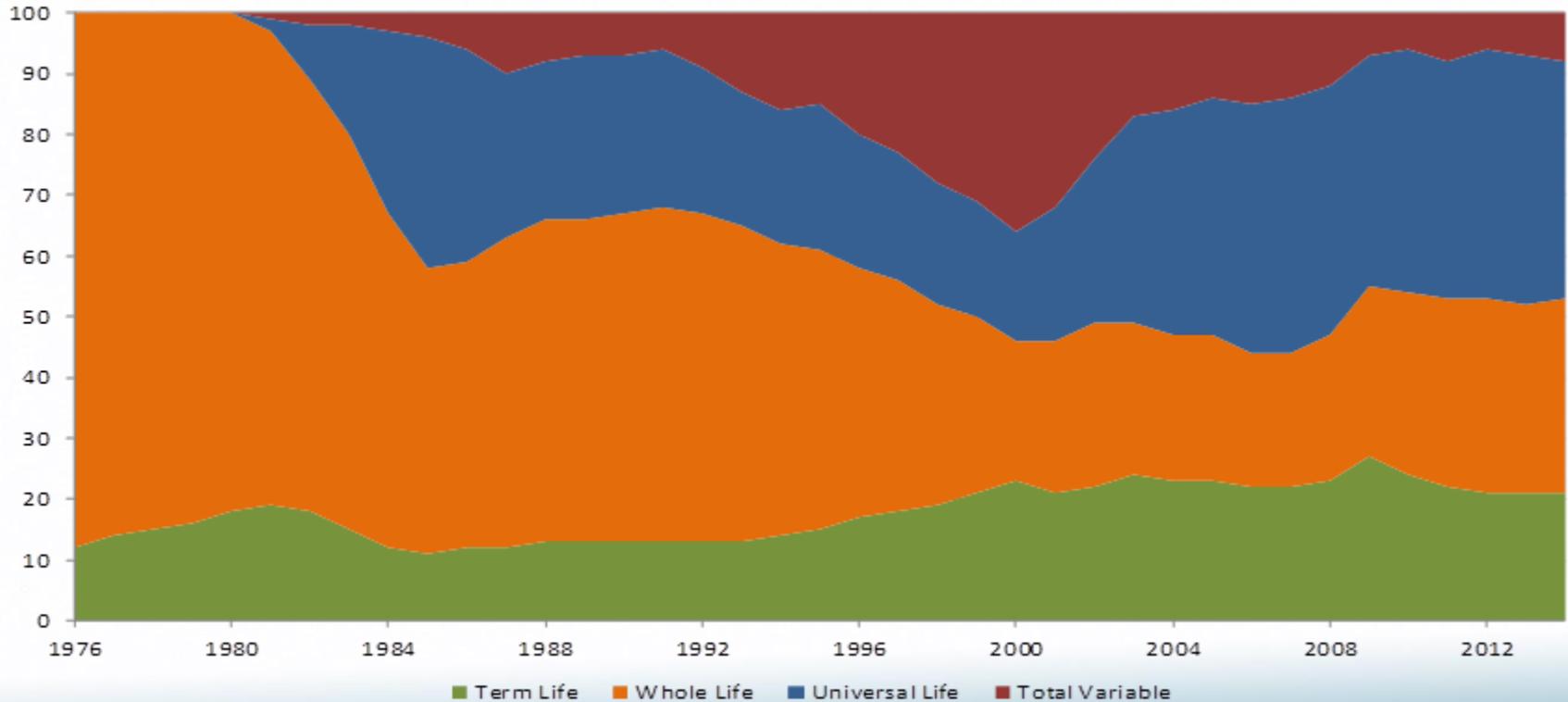


2013



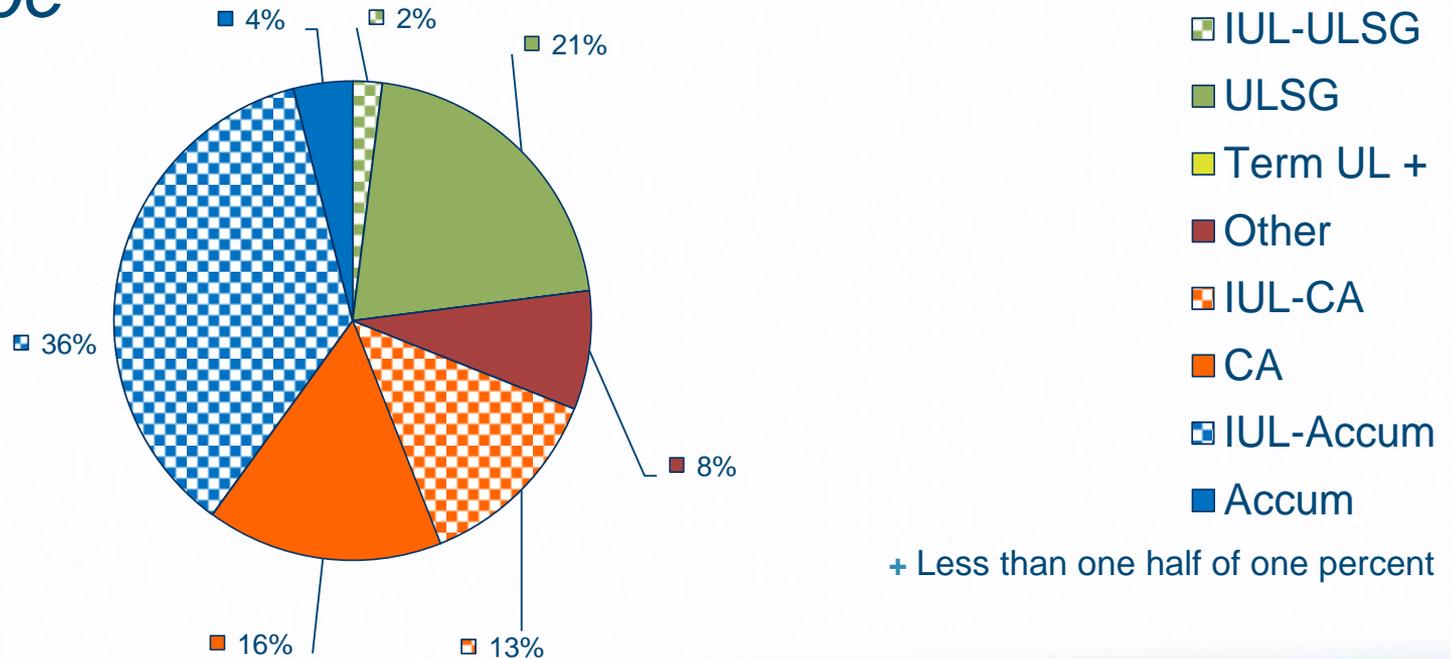
Source: LIMRA

Another View of Life Market History



4Q 2014 UL Market Share of Premium

by UL Type



Source: LIMRA

Indexed UL Sales

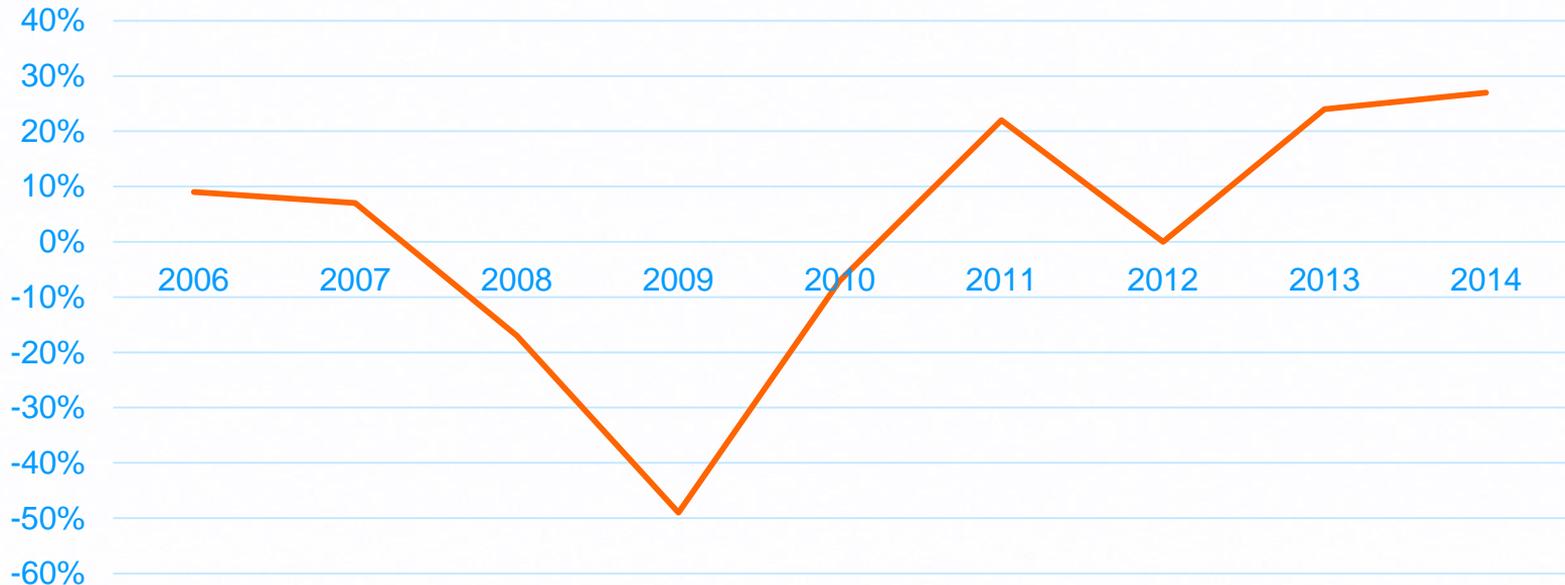
Top Characteristics of 4th Quarter Sales

	2014	2013	2011	2008
Carriers Offering Product	50	52	46	35
Annual Point-to-Point	79.7%	82.6%	70.4%	64.5%
S&P 500	59.2%	71.5%	86.4%	The norm
Rainbow/Multi-Index	26.1%	21.5%	4.6%	6 carriers offering
Other (including Fixed)	14.7%	7.0%	9.0%	8 carriers offering other than S&P

Source: Wink's Sales & Market Report 4th Quarter 2014 and prior analogous versions

Variable UL

Premium Year over Year



Source: LIMRA

IUL Illustration Regulation (1/2)

- AG49 adopted by LATF and approved by A Committee, full approval later
 - Expecting partially effective September 1, 2015, loan provisions next March
- Illustrated Scale uses a 65 year look back with 25 year periods
 - If a “Benchmark Index Account” is available, apply current annual cap to past S&P performance
 - S&P, 1 year point to point, 100% Participation, 0% floor, annual crediting, annual cap
 - Illustrated credited rate calculated as an average of the average rate in series of 25 year periods
 - If a product does not feature the “Benchmark Index Account” actuarial judgement necessary. Anticipation that Benchmark Acct rate won't exceed 7%.

IUL Illustration Regulation (2/2)

- Disciplined Current Scale earned interest rate limitations
 - 145% of net earned rate if using a hedging program, 100% otherwise
- Market reaction is still TBD

PBR for Life Products / VM-20

- What to know...
 - Adoption Status (as of early June)
 - 34 of 42 necessary states, 58% of 75% necessary premium
 - 8 more states with 19% of premium are “in progress” (estimates vary)
 - 1/1/2017 effective date likely, based on July 1 deadline
 - Components:
 - Net Premium Reserve Deterministic Reserve
 - Stochastic Reserve
 - Deterministic Exclusion Test Stochastic Exclusion Test

Rector / Actuarial Guideline 48

- NAIC hired Rector & Associates to make recommendations for improving uniformity and transparency in captive transactions as well as treatment under PBR
- The Rector Report (initial, final, and modified recommendations based on industry comments) became the basis for Actuarial Guideline 48
- AG48 adopted in November 2014, effective 1/1/2015
- Applies to Term and ULSG products subject to XXX/AXXX
- Sets a “Required Level of Primary Security” backed by certain assets
- “Level” is determined by the “Actuarial Method” which is VM-20

AG48 Compared to VM-20

- AG48 eliminates the exclusion tests, term reserve is greater of NPR and DR, ULSG reserve is greater of those and SR
- AG48 overrides VM-20 language on reinsurance, until VM-20 is adopted
 - Reinsurance cash flows not included in DR and SR, YRT or Coinsurance credit is calculated as $\frac{1}{2}$ modal Cx or quota share percent, respectively
- VM-20 will not be retroactive, AG48 can apply retroactively to policies not previously part of a non-exempt reinsurance arrangement
- AG48 applies scalars derived from 2014 VBT / 2001 VBT that can reduce the NPR

Implementing AG48 or VM-20

- Must decide on level of sophistication and when to take action
- Do pricing models include standard logic for VM-20? Do we have to upgrade?
How much more customization will we need?
- Setting of assumption PADs for Prudent Estimate Assumptions
 - Can be similar to AG 38 8D analysis
 - Mortality mapping to 2008 VBT tables
- Complex products requiring premium solves for NPR
 - Similar to solve issues with 2001 CSO table
- Academy Scenario Generator and asset modeling
- Possibly significant runtime on large inforce blocks or model offices

Implementing AG48 or VM-20

- Current Activity – Inforce and flow business and Captives
 - Inforce business not in yet captive and open ended reinsurance arrangements
 - Discussions with regulators
 - Analysis for impact on new product designs, or need for re-design
- Discussed Activity – Full valuation implementation, pilots
- Challenges
 - VM-20 is still a moving target, what questions will turn up from AG48?
 - Availability of asset data and mortality tables specified by VM-20
 - Personnel familiarity with Reg's & Models / building institutional knowledge
 - Gathering experience data, having sufficient experience

VM-22: PBR for Fixed Annuities

- Three approaches being considered by subgroup, will ultimately recommend 1 to LATF. Goal of any approach is to “right-size” reserve levels.
 - (1) Replicate VM-20 with formulaic floor (AG33 light?) and discounted cash flow method (stochastic only?, no single scenario deterministic?)
 - (2) Representative Scenario Method – focus on key risk drivers for stochastic modeling, but in a limited scope by testing central estimates and distributions, weight scenarios by probability plus individual or aggregate margin
 - (3) Modernize and correct current formulaic method such as by defining new methodology for features such as GLBs
- New business only
- Still much work to do – testing, gathering feedback, drafting regulation