

**SOA LIFE RESEARCH IN PROGRESS - August 2016**

<b>Project Name</b>	<b>Objective</b>	<b>Expected Completion Date</b>
2017 Commissioner's Standard Ordinary (CSO)	Develop the 2017 CSO, including preferred structure tables and determine PBR margins for VM-20.	Complete. On SOA web site. <sup>1</sup>
GRET for 2017	Develop the Generally Recognized Expense Table (GRET) for 2017 purposes.	LATF review 8/2016
Guaranteed Issue/Simplified Issue Mortality Study	Develop tables or other protocol for the valuation of Guaranteed Issue, Simplified Issue and Preneed policies under PBR.	LATF review 8/2016
2014 Variable Annuity Guaranteed Living Benefit Utilization Study	Examine the utilization of guaranteed living benefit options on variable annuity policies under a Joint SOA/LIMRA project.	8/31/2016
Underwriting Criteria Scoring Tool (UCT) aka Relative Risk Tool	Create an online tool to assist in the selection of the appropriate relative risk valuation table for PBR valuation.	8/31/2016
Mortality Implications of PBR Survey - Part 2	Take a deeper dive into LX194, which was a survey to examine the various requirements, guidelines and procedures life insurance companies establish to underwrite the applicant's financial risks and efforts to mitigate financial underwriting and other fraud risk.	10/31/2016
2009-12 Individual Life Mortality Study	Complete the next in a series of experience analysis of individual ordinary life insurance mortality.	12/31/2016
2009-13 Individual Payout Annuity Mortality Study	Examine the mortality experience from 2009-13 under individual payout annuity contracts.	12/31/2016
2009-13 Structured Settlement Mortality Study	Examine the mortality experience from 2009-13 in structured settlements arising from personal injury claims.	12/31/2016
2011-14 Group Annuities	Complete a study of mortality experience under group annuity contracts provided by life insurance companies.	12/31/2016
SOA/LIMRA 2009-14 Life Premium Persistency	Develop and complete a study of premium persistency experience on flexible pay products like UL, IUL and VUL.	3/31/2017
SOA/LIMRA Life Policy Holder Behavior Study	Examine the behavior of policyholders of life insurance policies under a joint SOA/LIMRA project.	3/31/2017

<sup>1</sup> <http://www.soa.org/Research/Experience-Study/Ind-Life/Valuation/2017-cso-tables.aspx>

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Economic Scenario Generator	Develop a primer on ESGs that can be used as a practical guide to help actuaries understand and apply Economic Scenario Generators to their best advantage.	Complete. On SOA web site. <sup>1</sup>
Mortality Conversion Policies	Examine term conversion mortality experience.	Complete. On SOA web site. <sup>2</sup>
State of Longevity Indices	Develop a set of indicators and a composite index that will measure how well the United States is doing to improve the long term well-being for people of all ages.	Complete. On SOA web site. <sup>3</sup>
Update to Economic Capital for Life Insurance Companies	Update report describing economic capital methodology and approaches.	8/31/2016
Nested Stochastic Approach - do we need it?	Create a resource to help actuaries and others answer three main questions: 1. Is nested stochastic modeling always required to achieve the stated objective? 2. What are the other approaches actuaries can adopt instead of nested stochastic modeling? 3. What techniques can be used to accelerate the run time for nested stochastic modeling?	9/30/2016
PBA Implementation Guide Update	Update the SOA PBA Implementation Guide to reflect changes in VM-20 since its release.	9/30/2016
Educational Monograph on the Adjustment For Risk For Financial Reporting Purposes(IAA Managing)	Address the application of risk and uncertainty to the measurement of the liability of insurance contracts in the context of general purpose accounting as adopted by the International Accounting Standards Board (IASB).	12/31/2016
Genetic Testing, Family History and Mortality	Examines the impact of genetic testing on the life insurance industry.	12/31/2016
Impact of VM-20 on Life Insurance	Examines the impact of VM-20 on life insurance product development actuaries.	12/31/2016
Modern Deterministic Scenarios	Examine the current economic landscape and other drivers of adverse conditions to develop one or more scenario sets appropriate for asset adequacy testing that reflect the current life insurance industry environment.	12/31/2016
Retention Management	Examine insurer life reinsurance retention limit strategies utilized under a current U.S. statutory reserving basis and analyze the impact of these retention limit methods on retained reserves under proposed Solvency II and PBA framework.	12/31/2016
Simplified Methodologies	Investigates simplifications, approximations, and modeling efficiency techniques allowed under VM-20 for determining reserves.	12/31/2016
Mortality Analysis of 1900 Birth Cohort	Analysis of US 1900 birth cohort mortality.	6/30/2017
2017 Living to 100 Symposium	Publish the monograph, the long-lasting research record, of the papers and presentations given at the 2017 January Living to 100 Symposium.	9/30/2017

<sup>1</sup> <http://www.soa.org/Research/Research-Projects/Finance-Investment/2016-economic-scenario-generators.aspx>

<sup>2</sup> <http://www.soa.org/Research/Research-Projects/Life-Insurance/2015-survey-conversion-assumptions.aspx>

<sup>3</sup> <https://www.soa.org/Research/Research-Projects/Life-Insurance/2016-sightlines-project.aspx>