



RETIREMENT RESEARCH REPORTS AND SOFTWARE

The Society of Actuaries (SOA) continually publishes new retirement research reports and software. All material is available at: SOA.org/Pension-Research

Observations on Input and Output Smoothing: How Do They Affect the Funding of Defined Benefit Plans? presents observations about the general similarities and differences between input and output categories of smoothing methodologies.

Back Testing of Investment Performance by Asset Class explores the impact of market performance on a pension plan's ability to meet its obligations.

Estimating Equity Risk Premiums explores issues related to projecting future equity risk premiums.

Improving Retirement Outcomes: Timing, Phasing and Benefit Claiming Choices evaluates several of the more common retirement timing and claiming strategies using a retirement simulation model that incorporates investment, inflation, health and long-term care risks.

Utilization of MAP-21 Pension Funding Stabilization in 2012 presents a brief summary of data that is readily available from regulatory filings for most defined benefit plans under the MAP-21.

Pension Risk Transfer—Evaluating Impact and Barriers for De-Risking Strategies discusses pension risk transfer including key de-risking measures, alternatives and triggers that impact pension risk transfer strategies.

The Rising Tide of Pension Contributions Post-2013: How Much and When? is an updated analysis of funding for the U.S. private sector single-employer DB system.

Multiemployer Plan Stress Metrics introduces two new metrics to measure financial stress in multiemployer pension plans. Both metrics are designed to measure the burden of unfunded liability on active participants.

The Pension Plan Stats and Multiemployers Series is a selection of Pension Plan stats for a number of organizations and employers.

Challenges and Strategies for Financing an Increasingly Long Life focuses on how longevity impacts household financial needs in retirement and which strategies can best address these needs.

Analysis of Target Benefit Plan Design Options investigates, through stochastic modeling, the way in which different target benefit plan design features and funding strategies impact performance over the short- and long-term.

Tax-Deferred Retirement Saving in Canada examines the effectiveness of tax deferral and other fundamental choices in Canadian employer-sponsored retirement plans.

Enhancing the Security of Defined Contribution Plans discusses challenges of embedding guarantees in DC plans. It is the result of a call for papers issued by the SOA to examine the current state and future usage of guarantees in pension systems.

A System to Evaluate and Compare Defined Contribution Plans develops an actuarial framework for assessing defined contribution retirement plan benefits.

Determining Discount Rates Required to Fund DB Plans analyzes approaches for the required discount rate to determine adequate funding for DB pension Plans.

Discount Rate Sensitivities in Pension Plans examines a simple but accurate means of assessing discount rate sensitivity.

Provisions of Adverse Deviations in Going Concern Actuarial Valuations expands on a 2013 CIA paper by including information on variations in hypothetical wind-up funding levels and examining differences in required PfADs attributable to differences in plan design.

Impact of Mortality Change on U.S. Single Employer Pension Plan Funding looks at the impact on the U.S. single employer pension system as a whole of proposed mortality table changes for funding purposes, including liabilities, contributions and PBGC premiums.

U.S. Pension Plan Discount Rate Comparison 2009-2014 compares the recent historical relationship between pension plan funded status and discount rates used to compute liabilities for funding purposes.

New CPP Enhancements: What Do They Mean for Canadian Workers and Seniors? this report assesses the impact of the Canadian Pension Plan (CPP) enhancements on Canadian workers and retirees.

Retirement Adequacy in the United States: Should We Be Concerned? summarizes current research on retirement adequacy and compares different measures.

Annuities Versus Tontines in the 21st Century investigates the mechanics and practicalities of introducing retirement income tontines (RITs) in today's market place.

Value of Longevity Pooling explores the value of longevity pooling and its implications.

Settlement Cost Compared to Going Concern Funding Targets examines differences between going concern and solvency valuations based on Ontario pension plan data.

Modeling and Management of Longevity Risk is an effort by the SOA, Institute and Faculty of Actuaries, and the Canadian Institute of Actuaries, creating research projects and education materials on modeling and management of longevity risk.

The Financial Impact of Student Debt on Working and Retired Americans addresses the potential consequences of accumulating education debt for retirement security.