

Index

- AARP, 9, 12, 38, 164
 Abbott, Barry, 13
 Accounting Standards Codification (ASC), 76
 Acquisition indebtedness, interest deductibility and, 102
 Activities of daily living (ADLs), 57, 60, 69
 Actuarial data, on seniors over age 80, paucity of, 41
 Actuarial modeling, longevity-specific, 59
 Actuarial risk, 47, 86
 Adjustable interest rates, for HECM loans, 20
 Age. *See also* Life expectancy; Longevity risk
 annual prepayment rates and, 95
 crossover risk and, 138
 decumulation of housing wealth and, 155–159
 housing equity relative to, 149–152
 mortality assumptions and, 93
 owner occupancy rates by, in Japan, U.S., Australia, 153
 ownership status changes and, 156
 Agency loans, nonconforming loans *vs.*, 48–51
Age of Aging, The (Magnus), xii
 Age-specific mortality “hazard rates,” Compertz functions and, 59
 Aging crisis:
 in Japan, 111, 124
 magnitude of, xii
 Aging in place, 57
 Akaike Information Criterion (AIC), 70, 71–72
 American Banker’s Association, 24, 25
 American Jobs Creation Act of 2004 (Jobs Act), 101, 104, 105
 American Recovery and Reinvestment Act of 2009, 20
 American Society of Actuaries, 59
 Annuities, medical underwriting and, 89
 Annuity options analysis, for reverse annuity product, 161–162
 Appraisals, 20
 Asset valuation measurement, levels in, 75
 Assisted living facilities, 58
Auditing Fair Value Measurements and Disclosures, 76
 Australia:
 fertility rate in, 111
 housing wealth among elderly in, 149–152
 owner-occupancy rates by age in, 153
 real estate prices in, 112
 Average life expectancy, defined, 56
 Baby Boomers:
 home equity amounts locked up by, 43
 loss in home values and finances of, xi–xiii
 Bachman, Robert, 10
 Bank of America, 6, 15
 Barckman, Phillip, 57
 Bayesian Information Criterion (BIC), 70, 71–72, 77, 78
 Belling, Bronwyn, 9, 10
 Bequest motive, drawing down housing equity and, 158, 159
 Bernanke, Ben, 45
 Board of Governors of the Federal Reserve System, 23
 Bond issuance, U.K. reverse mortgage-backed securities and, 91, 98
 Calient, Jeanne, 8
 Capital Holdings (Louisville, Kentucky), 9
 Caps, pros and cons of, 82, 83
 Cash Account (Financial Freedom), 51–53*t*
 Center for Economic and Policy Research, xi–xii
 Center for Medicare and Medicaid Services, 58, 60
 Center for Retirement Research, 45
 Chicago Mercantile Exchange, 84, 85
 Chiuri, M. C., 118
 Closing costs, 20, 26
 CME. *See* Chicago Mercantile Exchange
 CMI Bureau. *See* Continuous Mortality Investigation Bureau
 CMS. *See* Center for Medicare and Medicaid Services
 CMT. *See* Constant Maturity Treasury Index
 Cologne Reinsurance data, 57
 Condominiums, HECM revised guidelines for, 23–24
 Conforming mortgages, 4
 Conning Research, xiii
 Constant Maturity Treasury Index, 48
 Consumer acceptance, limited, for reverse mortgages, 12, 14, 16
 Consumer Credit Act (U.K.), 98
 Consumer protections, reverse mortgages and, 25. *See also* Predatory lending laws; Regulatory authority
 Contingent interest loans, 54*n*5
 Continuous Mortality Investigation Bureau, 93
 Council of Mortgage Lenders (UK), 91
 Countrywide, 6

- Credit card securitization, 134
- Credit risk, GNMA-guaranteed securities and, 145
- Credit swaps, 85
- Creditworthiness:
HECM borrowers and, 18
Japanese housing market and, 118
underwriting reverse mortgages and, 35
- Cross-correlation, benefits of, 89
- Crossover components, hedging, in capital markets, 82–83
- Crossover point, 92
- Crossover risk, 138
components of, 47–48
elimination of, for reverse mortgages, 53
Japanese reverse mortgage market and, 117
managing, 90
- Death probabilities:
observed and predicted, females, by predicted-probability class intervals with cutpoints at multiples of 5 percent, 68, 69
observed and predicted, females aged 65–99, by percent class intervals and 5-year age group, 73
observed and predicted, males, by predicted-probability class intervals with cutpoints of multiples of 5 percent, 67, 68
observed and predicted, males aged 65–99, by percent class intervals and 5-year age group, 73
within one year, females, 65
within one year, males, 65
within one year in four Pure Types of GoM models, adjusted for declines in vitality, by sex and attained age at time of exposure, 64
- Debits, 36
- Deductibility of interest payments, on reverse mortgages, 102–103
- DELRAP. *See* Direct Endorsement Lender Review and Approval Process
- Department of Housing and Urban Development, 3, 13, 145, 146
Letter 46A issued by, 23, 24
Letter 46B issued by, 23, 24
Letter 34 issued by, 26
- Dependency ratios, xii, 111
- Derivatives, housing, 84–85
- DiPasquale, D., 121
- Direct Endorsement Lender Review and Approval Process, 23, 24
- Dugan, John C., 24, 25
- Economic downturn (2008), reverse mortgage industry and, 21
- Enron debacle, 85
- Equity. *See* Home equity; Wealth in housing
- Equity Guard (Financial Freedom), 51–53*t*
- Equity release, overview of, 91–92
- Ernst & Young, 58
- Expanding Homeownership Act, 45
- Fair value, defined, 76
- Fair value accounting:
longevity risk and, 75–77
moveout and, 55–56
- Fasano Associates, online calculators, 38–41
- FASB. *See* Financial Accounting Standards Boards
- Federal Deposit Insurance Corporation, 24, 25
- Federal Housing Administration, 18, 45, 55, 120, 164
- Federal Housing Authority, 137, 138
- Federal income tax aspects on reverse mortgages, 101–107
deductibility of interest payments on reverse mortgages, 102–103
overview of, 101
practical observations regarding REMICs, 105–106
securitization of reverse mortgage loans vis REMIC structure, 103–105
- Federal National Mortgage Association (Fannie Mae), 50, 120
HECM portfolio, 132
Home Keeper mortgage, 12–13, 51–53*t*, 164
- Federal Reserve System, 24, 83
- Federal Trade Commission, 24
- Females:
death of spouse and housing status change for, 155
log-likelihood-ratios for four sex-specific models with corresponding AIC and BIC statistics used for model assessment, 71
mortality assumptions for, 93
observed and predicted probabilities of death, by predicted-probability class intervals with cutpoints at multiples of 5 percent, 68, 69
ownership status changes among, 156
probabilities of death within one year in four pure types of GoM models, adjusted for declines in vitality, 64
probability of death within one year, 65
survival curve for, 62–63
- FHA. *See* Federal Housing Administration
- FICO scores, 4, 17, 22, 27, 41
- Financial Accounting Standards Boards, 56
- Financial counseling, HECMs and, 25–26, 27, 143
- Financial Freedom Senior Funding Corporation, 120
Cash Account, Equity Guard, 51–53*t*
merger with Unity Mortgage, 15
- Financial products, cross-selling of, 25, 27
- Fixed-rate mortgage, 30-year, 130
- Flavin, M., 118
- FNMA. *See* Federal National Mortgage Association (Fannie Mae)
- Forward mortgages, 130
- France, early reverse mortgage loans in, 8
- Frank, Anthony M. (Tony), 8, 9, 14
- Freedom Financial (formerly Home Equity Partners), 10

- GAAP:
 existing accounting framework, reverse mortgage underwriting and, 75–77
 fair value requirements required by, 75, 76–77
 life settlement underwriting and compliance with, 77–78
- Gender, mortality assumptions and, 93. *See also* Females; Males
- Gender neutral loan amounts, in reverse mortgage underwriting, 37
- Ginnie Mae Guaranteed HECM MBS REMIC Pass-Through Security, 136, 145
- GMAC Commercial Mortgage, 15
- GNMA. *See* Government National Mortgage Association (Ginnie Mae)
- Goetzmann, W., 119
- Gompertz law, 58–59, 79n4
- Government Accountability Office, “GAO Report,” 24, 25, 26
- Government National Mortgage Association (Ginnie Mae), 50, 146
 growth in HECM originations and, 128
 guaranteed MBS *vs.* guaranteed HMBS, 133
 HMBSs, 128, 145
- Government-sponsored entity, 12
- Grade of Measurement (GoM system):
 Longevity Cost Calculator and, 61–74
 probabilities of death within one year in four Pure Types of models in, adjusted for declines in vitality, by sex and attained age, 64
- Great Depression, 14, 16
- GSE. *See* Government-sponsored entity
- Guaranteed HECM MBS REMIC Pass-Through Securities Ginnie Mae REMIC Trust:
 securities classes in, 136–137
 2009-H01, 136
- Guarantee fees, HECM contract, 145
- Halifax house price index, 95, 96
- “HECM for Purchase” program, 21–23
- HECM mortgage-backed security, 50, 132, 133, 146
 defined, 128
 GNMA guarantees for, 145
 pass-through accrual rate, 136
 securitization and, 134–137
- HECMs. *See* Home Equity Conversion Mortgage(s)
- Hedge ratios, establishing and back-testing, 85
- Hedging:
 crossover components, in capital markets, 82–83
 declines in housing prices, 85
- HEL floating spreads, 86
- High-prepayment scenario, U.K. reverse mortgage-backed securities, 98
- HMBS. *See* HECM mortgage-backed security
- Holmes, Oliver Wendell (Justice), xiii
- Home equity. *See also* Wealth in housing income constraints and, 127, 128
 unlocking in Japan, 111–124
 value of, U.S. *vs.* Japan, 116
- Home Equity Conversion Mortgage(s), xiv, 3, 15, 17–28, 48, 51–53*t*, 55. *See also* Reverse mortgages
 administration of, 18, 27
 basics of, 143
 cash flows, risk, and uncertainty with, 131–132
 changes to, after 2008 Act, 21–24
 constraints of underlying asset and, 140, 142–145
 consumer-focused elements of, 24–26
 costs of, 26
 disbursing funds and loan/interest calculations for, 19–21
 as financial innovation, 130–131, 136, 146
 initial approval of, 9
 introduction of, 127
 legislative history and program fundamentals, 18–19
 lifetime interest rate caps on, 140
 liquidity issues and, 128, 130
 longevity risk embedded in, 137–140
 lump-sum or monthly payment, by age and home value for, 164–165
 new homes financed with, 130–131
 NVA calculations of available equity via, 141
 originations for, 49, 129
 pooled, hypothetical variations of cash inflows and outflows by, 134
 qualifying requirements under, 19
 revised condominium guidelines for, 23–24
 secondary market for, 132–134
 securitization of, 128, 133, 134–137
- Home equity indebtedness, interest deductibility and, 102, 103, 106
- Home Equity Partners, 10
- Home hospice care, 48
- Home Keeper loans (Fannie Mae), 12–13, 15, 51–53*t*
 HECMs *vs.*, 50
 lump-sum or monthly payment, by age and home value for, 164–165
- “Home-Made Money” (Scholen), 12
- Homeownership rates, by age cohort, 44
- Home price appreciation, 43, 82
 credit crisis and, 43
 crossover points and, 47
 futures and options relative to, 84–85
- Home price index levels, 84
- Home price risk, 47
- Home values, Baby Boom generation and losses in, xi
- Hosmer-Lemeshow chi-squared test, NAAJ analysis and, 67–68
- Hospice care, 48
- “HouseMoney” (Transamerica Home-First), 57

- House price increase assumptions, 95–97
 HPI in year 1, 96
 HPI in years 2–4, 96
 HPI in years 5–15, 96–97
 HPI in years 16 to legal final maturity date, 97
- Housing and Community Development Act of 1987, 18
- Housing and Economic Recovery Act of 2008, 18
- Housing derivatives: HPA futures and options, swaps, 84–85
- Housing prices:
 fall in, reverse mortgage investments and, 90
 hedging declines in, 85
 interest rates and, 82
 mortgage rates *vs.*, 83
- Howard Rice law firm, 13
- HPA. *See* Home price appreciation
- HUD. *See* Department of Housing and Urban Development
- IASB. *See* International Accounting Standards Boards
- Income constraints, home equity and, 127, 128
- Initial principal limit:
 calculating, 20
 ratio of, to maximum claim amount, 144
 by year, 129
- Instrumental activities of daily living (IADLS), 58, 60
- Insurance:
 coverage abstract and terms, examples, 87, 88–89*t*
 cross-correlation benefits, 89
 HECM program and, 18, 19
 homeowners, 4
 medical underwriting, 89
 mortality coverage, 86–87
 premium rates, 87
- Interest, accrued, on reverse mortgage loan, 35, 37
- Interest deductions on reverse mortgages, 101, 102–103
- Interest rate derivative products, risk mitigation and, 82
- Interest rates:
 on HECM loans, 20
 home prices and, 82
 reverse mortgages in Japan and, 114
 risk and, 47
- Intergenerational wealth transfers, HECMs and, 146
- Internal Revenue Service, 103
- International Accounting Standards Boards, 56
- IPL. *See* Initial principal limit
- Japan:
 aging crisis in, xii, 111, 124
 conditions supporting unlocking home equity in, 113–114
 financial market and reverse mortgages in, 117, 118–121
 housing wealth in, 111–112, 149–152
 low volume of trades in housing market in, 117, 118
 moving rates of owner households age 65 and older in, 157
 owner-occupancy rates by age in, 153
 potential payoffs of reverse mortgages in, 114–117
 reverse mortgage implementation in, 112–117
 summary of reverse mortgage market in, 121–124
 unlocking housing equity in, 111–124
- Japan Housing Lending Corporation, 118
- Jappelli, T., 118
- Johnson, James, 15
- Jumbo loans, 51
- Kase, H., 119
- Kass, R. E., 77
- KBC Financial Products, 6
- Kids in Parents' Pockets Funding Retirement Savings (KIPPERS), *iii*
- Knight Capital Group, 6
- LCC. *See* Longevity Cost Calculator
- LCC models:
 log-likelihood-ratios for four sex-specific models with corresponding AIC and BIC statistics used for model assessment, 71
 quantifying size of nonrandom deviations in, 70
- LE. *See* Life expectancy
- Lehman Brothers, 15, 120
- Lender challenges, overview of, 6
- "Letter 34," 26, 27
- "Letter 46A," 23, 24
- "Letter 46B," 23–24
- LIBOR (London Interbank Offered Rate):
 HECMs and 1-month, Fixed Rate and 1-Year interest rate choices, 139–140, 141
 nonconforming loans and, 50, 51
- Life expectancy, 35. *See also* Longevity risk;
 Survival curves
 average, defined, 56
- Fasano Online Calculators, 38–41
- Japanese, reverse mortgage setting and, 114–116, 119, 121
- life settlements, medical records and, 75
- living beyond, 48
- loan disbursements and, 4
- survival curves and, 61–63
- underwriting, 35, 36–37
- Life insurance:
 Japanese market, strengthening, 123
 life settlements and, xiii–xiv
 medical underwriting and, 89
- Life-linked assets, transparency and, 78
- Life settlement contract, cash flow profile of, 137
- Life Settlement Financial, 60
- Life settlements, xiii–xiv, 6, 147. *See also* Reverse mortgages
- Longevity Cost Calculator and, 74

- medical records, LE estimates and, 75
- securitization of, 90
- Life Settlement Task Force (SEC), 55
- Life settlement underwriting:
 - reverse mortgage underwriting *vs.*, 37
 - standardizing, suggested GAAP-compliant methodology for, 77–78
- Lifetime reverse mortgages, first, 10–12
- Linear regression analysis, for LCC models, 70
- Line of credit HECM product, FHA insurance for, 48
- Liquidity issues:
 - Home Equity Conversion Mortgage and, 128, 130, 145
 - U.K. reverse mortgage-backed securities and, 98
- Loan accrual, reverse mortgages, 92, 93
- Loan disbursements, 4–5
- Loan-to-Value loans, 47, 86, 92
- Log-likelihood-ratios, accuracy of LCC models and, 71
- Longevity Cost Calculator model:
 - actual *vs.* expected accuracy of, 60, 63–74
 - as loan underwriting and pricing tool, 61–74
 - reverse mortgage loan pricing with, 74–75
- Longevity factors, critical, for accurate loan pricing, 56
- Longevity-linked asset classes, steady returns via, xiv
- Longevity risk. *See also* Life expectancy; Longevity Cost Calculator model
 - fair value accounting and, 55–77
 - HECMs and, 137–140, 145
 - HUD-issued mortgage insurance and, 19, 27
 - lender protected from, 4
 - product design and, 56–57
- Longevity-valued assets, mispricing issues and, 58
- Long-Term Capital Management, 85
- Long-Term Care Planning Tool (Medicare web site), 60
- Low-income reverse mortgage loans, 13
- Low-prepayment scenario, in U.K. reverse mortgage-backed securities, 98
- LTV loans. *See* Loan-to-Value loans
- Lump-sum option analysis, for reverse annuity product, 161–162
- LVAs. *See* Longevity-valued assets
- Magnus, George, xii
- Males:
 - death of spouse and housing status change for, 156
 - log-likelihood-ratios for four sex-specific models with corresponding AIC and BIC statistics for model assessment, 71
 - mortality assumptions for, 93
 - observed and predicted probabilities of death, ages 65–99, by percent class intervals and 5-year age group, 73
 - observed and predicted probability of death, by predicted-probability class intervals with cutpoints at multiples of 5 percent, 67, 68
 - ownership status changes among, 156
 - probabilities of death within one year in four pure types of GoM models, adjusted for declines in vitality, 64
 - probability of death within one year, 65
 - survival curves for, 61, 62, 63
- Market value decline assumptions, 96
- Maturity events:
 - HECMs and, 18, 143
 - repayment and, 102
 - triggering of, 131
- Maximum claim amount, 19–20, 27, 49, 133, 138, 144
- MBS. *See* Mortgage-backed security
- MCA. *See* Maximum claim amount
- Medicaid, xii, 45
- Medical costs, retirement needs and, 45, 146
- Medical information, 37, 38
- Medical underwriting, 85
- Medicare, xii, 57
- Medicare Current Beneficiary Survey, 74
- MetLife, 11
- MIP. *See* Mortgage insurance premium
- MMI Fund. *See* Mutual Mortgage Insurance Fund
- Modified debit methodology, for underwriting life expectancy, 36
- Modified tenure option, HECM loan disbursements and, 21
- Mortality, Gompertz law and, 58–59
- Mortality coverage, 86–87
- Mortality rates, improvements in, 94
- Mortality Tables (SSA), 55, 56
- Mortgage-backed security, HECM. *See* HECM mortgage-backed security
- Mortgage insurance premiums, 19, 26, 49, 140, 142
- Mortgage rates, home prices *vs.*, 83
- Moveouts:
 - loss in activities of daily living and, 57–58
 - for reverse mortgage loans, 55, 56
 - voluntary, prepayment assumptions and, 94
- Moving rates, of owner households age 65 and older, 157
- Multiplicative model, Gompertz functions and, 59
- Mutual Mortgage Insurance Fund, 26, 27
- MX Securities Ginnie Mae REMIC Trust 2010-H01, issuance of, 136
- National Affordable Housing Act (1990), 18, 27
- National Center for Health Statistics, 38
- National Council on Aging, 60
- National Credit Union Association, 25
- National debt, reverse mortgages design flaw and impact on, 57
- National Family Income and Expenditure Survey (Japanese), 121

- National Long Term Care Survey (1984), 57, 63, 74
- National Reverse Mortgage Lenders Association, 14, 139, 141
- Nationwide Building Society price index, 95, 96
- Net principal limit, calculating, 20
- New homes, HECMs and financing of, 22, 27, 130–131
- NFIES. *See* National Family Income and Expenditure Survey (Japanese)
- NLTCS. *See* National Long Term Care Survey
- Noguchi, Y., 119
- Nonconforming jumbo reverse mortgages, 4
- Nonconforming loans:
agency loans *vs.*, 48–51
basic features of, 50–51
- Nonrecourse mortgage, 140
- North American Actuarial Journal*, 59, 63–74
- NPL. *See* Net principal limit
- NRMLA. *See* National Reverse Mortgage Lenders Association
- Nursing home option, home hospice care *vs.*, 48
- Office of Comptroller of the Currency, 25
- Office of Thrift Supervision, 25
- Old-age dependency, xii
- Older-age underwriting, nuances of, 36–37
- One-Year Constant Maturity Treasury Rate, 54n6
- Oregon Public Employees' Retirement Fund, 8
- Origination fees, 20
agency *vs.* nonconforming loans, 48–49
HECM, 2008 Act's cap on, 26, 27
for reverse mortgages, 45
- Owner-occupancy rates, 152–153
- Participation, across different HMBSs, 135
- Payout values:
computing, example of, 163–165
determining, practical setting, 162–163
- PCAOB. *See* Public Company Accounting Oversight Board
- Permitted investments, REMICs and, 105
- PLF. *See* Principal limit factor
- Pooled loan portfolio sizes, importance of, 60–61
- Population:
inadequacy of data on, as basis for pricing sophisticated financial instruments, 78
projected U.S., aged 62 and over, 44
- Portfolio size, optimum, for reverse mortgage loans, 60–61
- Post-credit crisis economy, reverse mortgage rebirth and, 16
- Poterba, J., 119
- Precautionary saving, retaining home equity and, 158, 159
- Predatory lending laws, Section 32, reverse mortgage exemptions, 51. *See also* Consumer protections; Regulatory authority
- Predatory lending practices, deterring, 24
- Premium rate calculations, for reverse mortgage insurance, 87
- Prepayment:
assumptions, in RMBS pools, 94–95
options, 45
risk, HECMs and, 131, 133
- Pricing models, accurate, for reverse mortgage loans, 4
- Pricing reverse mortgage loans, variables related to, 56
- Primary residence, interest deductibility and, 102
- Principal limit factor:
by age and interest rates, 138, 139
calculating, 26, 142, 144
- Property taxes, 4, 6
- Property upkeep/maintenance issues:
lender and, 4, 6
risk, value and, 131
- Provisional Home Income Plan, 9–10
- Provider, xiii
- Public Company Accounting Oversight Board, 60–61
- Purchasing power parity exchange rates, 151
- Raffray, Andre-Francois, 8
- Rafferty, A. E., 77
- Ralya, Don, 9
- RAM program. *See* Reverse Annuity Mortgage program
- Rating agencies, U.K. reverse mortgage-backed securities and, 91, 92, 93, 94, 95, 97, 98
- Real estate mortgage investment conduits, 101, 128, 146
defined, 103–104
HMBS securitization and, 135
practical observations about, 105–106
qualification of, for federal income tax purposes, 104
- Real estate prices:
cross-city and cross-country comparison, 154
in Japan, 111–112
- Regulatory authority. *See also* Consumer protections; Predatory lending laws
Japanese reverse mortgage market and, 120, 122, 124n6
reverse mortgage marketing and, 24, 25, 27–28, 51, 98
- REMICs. *See* Real estate mortgage investment conduits
- REMIC structures, securitization of reverse mortgage loans via, 103–105
- Repayment, "maturity" events and, 102
- Research-based clinical judgment, for underwriting life expectancy, 36–37
- Residential mortgage loans, tax treatment for reverse mortgages *vs.*, 101, 106
- Reverse Annuity Mortgage program, launching of, 8–9
- Reverse annuity mortgage (tenure option), 21
- Reverse equity transactions, xiii

- Reverse mortgage-backed securities, risk evaluation of, RMBS *vs.*, 92–93
- Reverse mortgage industry, 2008 economic downturn and, 21
- Reverse Mortgage Insights, Inc., 12
- Reverse mortgage insurance policy, coverage abstract, example, 87
- Reverse mortgages, 4–5. *See also* Federal income tax aspects on reverse mortgages; Home Equity Conversion Mortgage(s); Life settlements; Underwriting reverse mortgages
 - advantages with, 130, 146
 - analytics, 161–165
 - Baby Boomers and demand for, 28
 - break even rate with 2 percent fee, 46
 - defined, 3, 35, 102
 - disbursement options, 5
 - existing accounting framework and, 75–77
 - formative years for, 8–9
 - hard social sell related to, 14
 - history of, 8–16
 - issuance projections, 44
 - in Japan, implementation of, 112–117
 - life settlements and, xiii–xiv
 - to liquidate home equity, 127–129
 - loan accrual, 92, 93
 - loan pricing with Longevity Cost Calculator, 74–75
 - market potential, 145
 - market products, examples, 51–53
 - optimum portfolio size and, 60–61
 - overview of, 91–92
 - private programs for, 9–10
 - projected growth in, primary drivers for, 43, 45–46
 - reevaluation of moveout determination and, 55
 - requirements for obtaining, 3–4
 - risks relative to, 46–48
 - securitization of, 6–7, 13–15, 90, 143, 147
 - tax treatment for residential mortgage loans *vs.*, 101, 106
 - two covenants of, 46
 - 2005 market, 48
- Reverse mortgage setting, simulation model:
 - lifetime profile of assets *vs.* liabilities in, 115–117
- Risk:
 - Home Equity Conversion Mortgage and, 131–132
 - housing wealth and, 153, 155
 - underwriting life expectancy and, 36
- Risk mitigation, 81–90
 - ballooning U.S. balance sheet and, 43, 45, 53
 - from existing and proposed financial products, 43–53
 - hedging crossover components in capital market, 82–83
 - housing derivatives, 84–85
 - insurance solutions, 85–89
 - risk profile, 82
- RMInsight, Inc., 15
- R-squared values, for LCC models, 70
- Rush, Michael, 15
- RVMB. *See* Reverse mortgage-backed securities
- Sale of property:
 - loan repayment upon, 92
 - repayment of reverse mortgage and, 102
 - U.K. reverse mortgage-backed securities and, 97
- Sample sizes, NAAJ analysis, 66–67
- San Francisco Development Fund, 8
- Scholen, Ken, 9, 12
- Section 32 predatory lending laws, reverse mortgages exempt from, 51
- Securities and Exchange Commission, Life Settlement Task Force, 55
- Securitization:
 - credit card receivables and, 134
 - Home Equity Conversion Mortgage(s), 128, 133, 134–137
 - Japanese housing loans and lines of credit, 123
 - LIBOR and, 51
 - life-linked assets, challenges with, 90
 - reverse-mortgage-backed, 92–93
 - of reverse mortgage loans via REMIC structures, 103–105
 - of reverse mortgages, 6–7, 13–15, 143, 147
 - risk mitigation and, 81–82
 - Securitization markets, reemergence of, 26
 - Seller's interest, 134
 - Servicing fees, 20, 26
 - Smith Sloan, Katrina, 9
 - Social Security Administration:
 - individual-level assessment tool created for, 58
 - Mortality Tables, 55, 56
 - Social Security program, xii
 - S&P/Case-Shiller index, 84, 85
 - Speigel, M., 119
 - Spousal death, house status change at, 156
 - Stallard, P. J. Eric, 59, 70
 - Standard & Poors, 93, 94, 98
 - Static asset pool test, REMICs and, 104
 - Survival curves:
 - life expectancy and, 61–63
 - probability of surviving for each of 10 years following initial assessment at age 82, females, by Initial Time-Variant GoM Pure Type, 63
 - probability of surviving for each of 10 years following initial assessment at age 82, males, by Initial Time-Invariant GoM Pure Type, 62
 - Swaps, 85
 - cost/benefit analysis for, 86
 - pros and cons of, 82, 83
- Taxes. *See* Federal income tax aspects on reverse mortgages
- Taylor, Jeffery, 9, 14

- Tenure HECM product, FHA insurance of, 48
 Tenure option, HECM loan disbursements and, 20–21
 Tenure risk, HECMs and, 137, 145
 Term HECM product, FHA insurance of, 48
 Terminal conditions, underwriting reverse mortgages and, 38
 Term option, HECM loan disbursements and, 21
 Texido, Bill, 9
 Time-value-of-money perspective, deductibility of reverse mortgage interest and, 103
 Title insurance, 20
 Title search, 20
 Torrence, Joe, 15
Trajectories of Morbidity, Disability, and Mortality Among the U.S. Elderly Population: Evidence from 1984-1999 (NLTCs (Stallard)), 59
 Transamerica Corporation, 9, 13, 15
 Transamerica HomeFirst, 9, 10, 11, 58
 “HouseMoney,” 57
 Lifetime Reverse Mortgage, 10–11
 Transparency:
 HECM program and, 27–28
 life-linked assets and, 78
 2008 Act:
 changes to HECM program under, 21–23
 revised condominium guidelines under, 23–24
 U.K. reverse mortgage-backed securities:
 costs and sale period, 97
 criteria for rating, 91–98
 house price increase assumptions, 95–97
 mortality assumptions, 93–94
 overview of reverse mortgages, 91–92
 prepayment assumptions, 94–95
 reverse mortgage-backed securitization, 92–93
 summary, 97–98
 Underwriting life settlements, GAAP-compliant methodology for standardization of, 77–78
 Underwriting reverse mortgages, 35–42
 life settlement underwriting *vs.*, 37
 proposed elements of, 38, 41
 simplicity of current process for, 37–38
 social importance of, 38
 underwriting life expectancy, 36–37
 United Kingdom:
 population over pensionable age in, 91
 reverse mortgages introduced in, 92
 United Seniors Health Cooperative, 10
 United States:
 housing wealth among elderly in, 149–152
 moving rates of owner households age 65 and older in, 157
 owner-occupancy rates by age in, 153
 Unity Mortgage, Financial Freedom merges with, 15
 Urban Financial, 6
 U.S. Decennial Life Tables (1989-1991), 56
 death probabilities from, 1989-1991, 65
 probability of surviving for each of 10 years following initial assessment at age 82, females, for Initial Time-Invariant GoM Pure Type and for, 63
 probability of surviving for each of 10 years following initial assessment at age 82, males, for Initial Time-Invariant GoM Pure Type and for, 62
 U.S. Internal Revenue Code of 1986 (the “Code”), 101, 102
 U.S. Vital Statistics, 38
 USDLT. *See* U.S. Decennial Life Tables
 Vigilant Systems, *Administrator* assessment tool, 58
 Voluntary moveouts, prepayment assumptions and, 94–95
 Wealth in housing:
 among elderly, in U.S., Japan, Australia, 149–152
 elderly and decumulation of, 155–159
 risk and, 153, 155
 Wells Fargo Bank, 6, 14–15
 Wendover Funding, Inc., 14
 Wheaton, W. C., 121
 World Alliance Financial Corporation, 136
 WorldCom, 85
 Yamashita, T., 118
 Youth dependency, xii