

Objective

The fund seeks as high a level of current income as Putnam Management believes is consistent with preservation of capital.

Lipper category

VP (Underlying Funds) — U.S. Mortgage Funds

Portfolio Managers

Michael V. Salm

(industry since 1989)

Brett S. Kozlowski, CFA

(industry since 1997)

Jatin Misra, PhD, CFA

(industry since 2004)

Current unit value

Class IA: \$7.79

Class IB: \$7.77

Credit qualities are shown as a percentage of the fund's net assets. A bond rated BBB or higher (A-3 or higher, for short-term debt) is considered investment grade. This chart reflects the highest security rating provided by one or more of Standard & Poor's, Moody's, and Fitch. To-be-announced (TBA) mortgage commitments, if any, are included based on their issuer ratings. Ratings may vary over time. Cash, derivative instruments, and net other assets are shown in the not-rated category. Payables and receivables for TBA mortgage commitments are included in the not-rated category and may result in negative weights. **The fund itself has not been rated by an independent rating agency.**

Putnam VT Mortgage Securities Fund

Seeking opportunities throughout the universe of mortgage-related bonds

Broad securitized opportunities

The fund invests in multiple mortgage sectors, including agency MBS and CMOs, non-agency RMBS and CMBS, and ABS.

Higher potential returns

By investing in mortgage-backed bonds, the fund can offer the potential for higher returns than an investment strategy focused only on agency MBS.

Leading research

The fund's portfolio managers use proprietary models to assist in the evaluation of mortgage-backed bonds and to manage the fund's interest-rate risk.

Diversification across bond market sectors

Agency pass-through	45.6%
Commercial MBS	45.1
Agency CMO	37.9
Residential MBS (non-agency)	21.5
Asset-backed securities (ABS)	2.1
Net cash	10.9

Allocations will vary over time. Allocations may not total 100% of net assets because the table includes the notional value of derivatives (the economic value for purposes of calculating periodic payment obligations), in addition to the market value of securities.

Maturity breakdown

0 to 1 year	-13.1%
1 to 5 years	59.9
5 to 10 years	55.1
10 to 15 years	-1.3
Over 15 years	-0.7

Portfolio quality

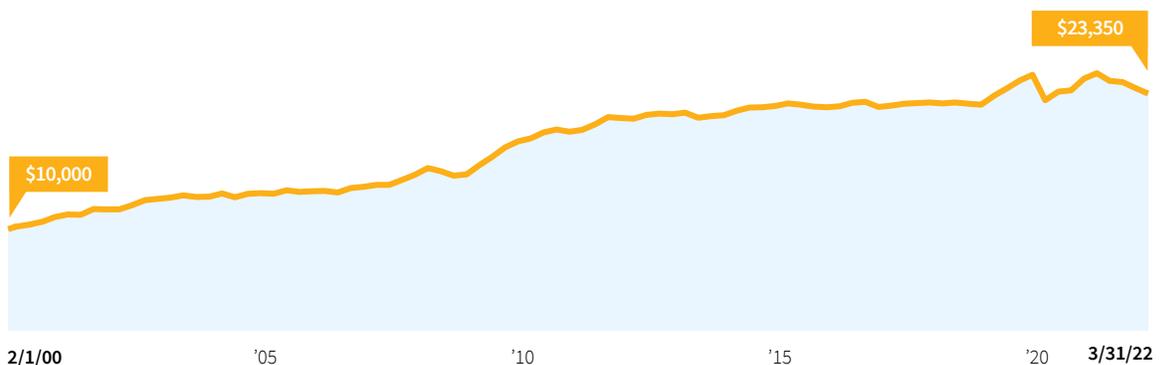
AAA	103.0%
AA	3.1
A	6.9
BBB	9.1
BB	4.8
B	7.1
CCC and below	3.1
Not rated	-37.2

Allocations will vary over time. Due to rounding, percentages may not equal 100%.

A negative percentage reflects the effect of fund strategies that are designed to enhance performance if certain securities decline in value.

Growth of a \$10,000 investment

The fund has returned an average of 3.9% annually since inception. (Class IB)



Current performance may be lower or higher than the quoted past performance, which cannot guarantee future results. Share price, principal value, and return will vary, and you may have a gain or a loss when you sell your shares. All total return figures are at net asset value. The charges and expenses of the insurance company separate account level are not reflected. To obtain the most recent month-end performance, contact your variable annuity provider, who has more information about their variable annuity and variable life products that invest in Putnam managed products. For a portion of the period, this fund limited expenses, without which returns would have been lower.

**Not FDIC insured
May lose value
No bank guarantee**

Number of holdings

852

Net assets

\$36.50M

Average effective duration

5.20

Annual performance at net asset value (all distributions reinvested)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 YTD
Class IA	-0.19%	4.49%	-0.33%	0.36%	2.27%	-0.62%	13.36%	-1.29%	-3.43%	-2.16%
Class IB	-0.48	4.31	-0.65	0.20	1.96	-0.90	13.20	-1.68	-3.66	-2.14
Bloomberg U.S. MBS Index	-1.41	6.08	1.51	1.67	2.47	0.99	6.35	3.87	-1.04	-4.97
Putnam VT Mortgage Securities Linked Benchmark	-2.60	4.92	0.86	1.05	2.30	0.67	6.35	3.87	-1.04	-4.97

Source: Bloomberg Index Services Limited.

Annualized total return performance

	Class IA NAV Inception 2/1/00	Class IB NAV Inception 2/1/00	Bloomberg U.S. MBS Index	Putnam VT Mortgage Securities Linked Benchmark
1 year	-7.66%	-7.86%	-4.92%	-4.92%
3 years	0.58	0.35	0.56	0.56
5 years	1.31	1.06	1.36	1.22
10 years	1.39	1.14	1.70	1.40
Life of fund	4.15	3.90	4.24	3.98

Source: Bloomberg Index Services Limited.

Current performance may be lower or higher than the quoted past performance, which cannot guarantee future results. Share price, principal value, and return will vary, and you may have a gain or a loss when you sell your shares. All total return figures are at net asset value. The charges and expenses of the insurance company separate account level are not reflected. Class IA shares are offered at net asset value and are not subject to a distribution fee. Class IB shares are offered at net asset value and pay an ongoing distribution fee. To obtain the most recent month-end performance, contact your variable annuity provider, who has more information about their variable annuity and variable life products that invest in Putnam-managed products. For a portion of the period, this fund limited expenses, without which returns would have been lower.

The Bloomberg U.S. MBS Index is an unmanaged index of agency mortgage backed pass-through securities (both fixed-rate and hybrid ARM) guaranteed by Ginnie Mae, Fannie Mae, and Freddie Mac. The Putnam VT Mortgage Securities Linked Benchmark represents performance of the Bloomberg Government Bond Index through April 29, 2018, and performance of the Bloomberg U.S. MBS Index thereafter.

BLOOMBERG® is a trademark and service mark of Bloomberg Finance L.P. and its affiliates (collectively "Bloomberg"). Bloomberg or Bloomberg's licensors own all proprietary rights in the Bloomberg Indices. Neither Bloomberg nor Bloomberg's licensors approve or endorse this material, or guarantee the accuracy or completeness of any information herein, or make any warranty, express or implied, as to the results to be obtained therefrom, and to the maximum extent allowed by law, neither shall have any liability or responsibility for injury or damages arising in connection therewith.

For informational purposes only. Not an investment recommendation.

FOR INVESTMENT PROFESSIONAL USE ONLY. Not for public distribution

Putnam Retail Management
FS038_VT 329758 4/22

Average effective duration provides a measure of a fund's interest-rate sensitivity. The longer a fund's duration, the more sensitive the fund is to shifts in interest rates.

Not all share classes are available on all platforms.

Consider these risks before investing: Funds that invest in government securities are not guaranteed. Mortgage- and asset-backed securities are subject to prepayment risk, which means that they may increase in value less than other bonds when interest rates decline and decline in value more than other bonds when interest rates rise. The fund may have to invest the proceeds from prepaid investments in other investments with less attractive terms and yields.

The fund's investments in mortgage-backed securities and asset-backed securities, and in certain other securities and derivatives, may be or become illiquid. The fund's exposure to mortgage-backed securities may make the fund's net asset value more susceptible to economic, market, political, and other developments affecting the housing or real estate markets and the servicing of mortgage loans secured by real estate properties. The fund currently has significant investment exposure to commercial mortgage-backed securities. Bond investments are subject to interest-rate risk (the risk of bond prices falling if interest rates rise) and credit risk (the risk of an issuer defaulting on interest or principal payments). Interest-rate risk is generally greater for longer-term bonds, and credit risk is generally greater for below-investment-grade bonds. Default risk is generally higher for non-qualified mortgages. Risks associated with derivatives include increased investment exposure (which may be considered leverage) and, in the case of over-the-counter instruments, the potential inability to terminate or sell derivatives positions and the potential failure of the other party to the instrument to meet its obligations. Unlike bonds, funds that invest in bonds have fees and expenses. The value of investments in the fund's portfolio may fall or fail to rise over time for a variety of reasons, including general economic, political, or financial market conditions; investor sentiment and market perceptions; government actions; geopolitical events or changes; and factors related to a specific issuer, geography, industry, or sector, such as the housing or real estate markets. These and other factors may lead to increased volatility and reduced liquidity in the fund's portfolio holdings or in relevant markets.

Our investment techniques, analyses, and judgments may not produce the outcome we intend. We, or the fund's other service providers, may experience disruptions or operating errors that could have a negative effect on the fund. You can lose money by investing in the fund.

Your clients should carefully consider the investment objective, risks, charges, and expenses of a fund before investing. For a prospectus containing this and other information for any variable annuity or variable life product that invests in Putnam managed products, call the Putnam Client Engagement Center at 1-800-354-4000. Your clients should read the prospectus carefully before investing.