

American Funds Insurance Series®

American Funds Mortgage Fund®

Summary prospectus

Class 2 shares

May 1, 2025



Before you invest, you may want to review the fund's [prospectus](#) and [statement of additional information](#), which contain more information about the fund and its risks. You can find the fund's prospectus, statement of additional information, reports to shareholders and other information about the fund online at capitalgroup.com/afis. You can also get this information at no cost by calling (800) 421-9900, ext. 65413 or by sending an email request to aficlass2@americanfunds.com. The current prospectus and statement of additional information, dated May 1, 2025, are incorporated by reference into this summary prospectus.

American Funds Insurance Series®

Prospectus Supplement

June 20, 2025

(for the most recent Class 1, Class 1A, Class 2 and Class 4
shares summary and statutory prospectuses, as
supplemented to date)



1. The information under the heading titled “Investing in future delivery contracts” in the “Principal risks” section of the American Funds Mortgage Fund summary and statutory section of the prospectus is amended to read as follows:

Investments in future delivery contracts – The fund may enter into transactions involving future delivery contracts, such as to-be-announced (TBA) contracts and mortgage dollar rolls. These contracts involve the purchase or sale of mortgage-backed securities for settlement at a future date and predetermined price. When the fund purchases these contracts, this can increase the fund’s market exposure because the value of securities the fund contracts to purchase is reflected each day in determining the fund’s net asset value and the fund is not required to pay for or obtain the securities until settlement date. When the fund enters into a TBA commitment for the sale of mortgage-backed securities (which may be referred to as having a short position in such TBA securities), the fund may or may not hold the types of mortgage-backed securities required to be delivered. The fund may choose to roll these transactions in lieu of settling them.

When the fund rolls the purchase of these types of future delivery transactions, the fund simultaneously sells the mortgage backed securities for delivery in the current month and repurchases substantially similar securities for delivery at a future date at a predetermined price. When the fund rolls the sale of these transactions rather than settling them, the fund simultaneously purchases the mortgage backed securities for delivery in the current month and sells substantially similar securities for delivery at a future date at a predetermined price. Such roll transactions can increase the turnover rate of the fund and may increase the risk that market prices may move unfavorably between the original and new contracts, potentially resulting in losses or reduced returns for the fund.

2. The following paragraph will be added after the heading titled “Investing in derivatives” in the “Principal risks” section of the American Funds Mortgage Fund summary and statutory section of the prospectus:

Leverage risk – Certain transactions of the fund may give rise to leverage. These transactions may include, among others, derivatives, future delivery contracts and when-issued, delayed delivery or forward commitment transactions. As a result, increases and decreases in the value of the fund’s portfolio may be magnified, and the fund may be exposed to a heightened risk of loss and increased costs.

3. The information under the heading titled “Investing in future delivery contracts” in the “Investment objective, strategies and risks” section of the American Funds Mortgage Fund statutory prospectus is amended to read as follows:

Investments in future delivery contracts – The fund may enter into transactions involving future delivery contracts, such as to-be-announced (TBA) contracts and mortgage dollar rolls. These contracts involve the purchase or sale of mortgage-backed securities for settlement at a future date and predetermined price. When the fund purchases these contracts, this can increase the fund’s market exposure because the value of securities the fund contracts to purchase is reflected each day in determining the fund’s net asset value and the fund is not required to pay for or obtain the securities until settlement date. When the fund enters into a TBA commitment for the sale of mortgage-backed securities (which may be referred to as having a short position in such TBA securities), the fund may or may not hold the types of mortgage-backed securities required to be delivered. The fund may choose to roll these transactions in lieu of settling them.

When the fund rolls the purchase of these types of future delivery transactions, the fund simultaneously sells the mortgage backed securities for delivery in the current month and repurchases substantially similar securities for delivery at a future date at a predetermined price. When the fund rolls the sale of these transactions rather than settling them, the fund

simultaneously purchases the mortgage backed securities for delivery in the current month and sells substantially similar securities for delivery at a future date at a predetermined price. Such roll transactions can increase the turnover rate of the fund and may increase the risk that market prices may move unfavorably between the original and new contracts, potentially resulting in losses or reduced returns for the fund.

4. The following paragraph will be added after the heading titled “Investing in derivatives” in the “Investment objective, strategies and risks” section of the American Funds Mortgage Fund statutory prospectus:

Leverage risk – Certain transactions of the fund may give rise to leverage. These transactions may include, among others, derivatives, future delivery contracts and when-issued, delayed delivery or forward commitment transactions. Leverage can magnify increases and decreases in the value of the fund’s portfolio and cause the fund to be more volatile than if the fund had not been leveraged. As a result, the fund may be exposed to a heightened risk of loss and increased costs. Leverage may also cause the fund to sell or liquidate portfolio positions when it may not be advantageous to do so in order to satisfy its obligations or to meet the fund’s applicable regulatory requirements regarding the usage of leverage.

Keep this supplement with your prospectus.

Investment objective The fund’s investment objective is to provide current income and preservation of capital.

Fees and expenses of the fund This table describes the fees and expenses that you may pay if you buy, hold and sell an interest in Class 2 shares of the fund. **You may pay other fees, such as insurance contract fees and expenses, which are not reflected in the tables and examples below.** If insurance contract fees and expenses were reflected, expenses shown would be higher.

Annual fund operating expenses (expenses that you pay each year as a percentage of the value of your investment)	Class 2
Management fee	0.29%
Distribution and/or service (12b-1) fees	0.25
Other expenses	0.09
Total annual fund operating expenses	0.63
Fee waiver*	0.07
Total annual fund operating expenses after fee waiver	0.56

* The investment adviser is currently waiving a portion of its management fee equal to .07% of the fund's net assets. This waiver will be in effect through at least May 1, 2026. The waiver may only be modified or terminated with the approval of the fund's board.

Example This example is intended to help you compare the cost of investing in Class 2 shares of the fund with the cost of investing in other mutual funds.

The example assumes that you invest \$10,000 in the fund for the time periods indicated and then redeem or hold all of your shares at the end of those periods. The example also assumes that your investment has a 5% return each year and that the fund’s operating expenses remain the same. The example does not reflect insurance contract expenses. If insurance contract expenses were reflected, expenses shown would be higher. The example reflects the fee waiver described above through the expiration date of such waiver and total annual fund operating expenses thereafter. No sales charge (load) or other fees are charged by the fund upon redemption, so you would incur these hypothetical costs whether or not you were to redeem your shares at the end of the given period. Although your actual costs may be higher or lower, based on these assumptions your costs would be:

	1 year	3 years	5 years	10 years
Class 2	\$57	\$195	\$344	\$780

Portfolio turnover The fund pays transaction costs, such as commissions, when it buys and sells securities (or “turns over” its portfolio). A higher portfolio turnover rate may indicate higher transaction costs. These costs, which are not reflected in annual fund operating expenses or in the example, affect the fund’s investment results. During the most recent fiscal year, the fund’s portfolio turnover rate was 644% of the average value of its portfolio.

Principal investment strategies Normally at least 80% of the fund’s assets are invested in mortgage-related securities, including securities collateralized by mortgage loans and contracts for future delivery of such securities (such as to be announced contracts and mortgage dollar rolls). The fund invests primarily in mortgage-related securities that are sponsored or guaranteed by the U.S. government, such as securities issued by government-sponsored entities that are not backed by the full faith and credit of the U.S. government, and nongovernment mortgage-related securities that are rated in the Aaa or AAA rating category (by Nationally Recognized Statistical Rating Organizations designated by the fund’s investment adviser) or unrated but determined to be of equivalent quality by the fund’s investment adviser. The fund may also invest in debt issued by federal agencies. In the case of to be announced contracts, each contract for future delivery is normally of short duration.

The fund may also invest in futures contracts and swaps, which are types of derivatives. A derivative is a financial contract, the value of which is based on the value of an underlying financial asset (such as a stock, bond or currency), a reference rate or a market index.

The investment adviser uses a system of multiple portfolio managers in managing the fund’s assets. Under this approach, the portfolio of the fund is divided into segments managed by individual managers.

The fund relies on the professional judgment of its investment adviser to make decisions about the fund’s portfolio investments. The basic investment philosophy of the investment adviser is to seek to invest in attractively priced securities that, in its opinion, represent good, long-term investment opportunities. Securities may be sold when the investment adviser believes that they no longer represent relatively attractive investment opportunities.

Principal risks This section describes the principal risks associated with investing in the fund. You may lose money by investing in the fund. The likelihood of loss may be greater if you invest for a shorter period of time.

Investing in mortgage-related and other asset-backed securities – Mortgage-related securities, such as mortgage-backed securities, and other asset-backed securities, include debt obligations that represent interests in pools of mortgages or other income-bearing assets, such as consumer loans or receivables. While such securities are subject to the risks associated with investments in debt instruments generally (for example, credit, extension and interest rate risks), they are also subject to other and different risks. Mortgage-backed and other asset-backed securities are subject to changes in the payment patterns of borrowers of the underlying debt, potentially increasing the volatility of the securities and the fund's net asset value. When interest rates fall, borrowers are more likely to refinance or prepay their debt before its stated maturity. This may result in the fund having to reinvest the proceeds in lower yielding securities, effectively reducing the fund's income. Conversely, if interest rates rise and borrowers repay their debt more slowly than expected, the time in which the mortgage-backed and other asset-backed securities are paid off could be extended, reducing the fund's cash available for reinvestment in higher yielding securities. Mortgage-backed securities are also subject to the risk that underlying borrowers will be unable to meet their obligations and the value of property that secures the mortgages may decline in value and be insufficient, upon foreclosure, to repay the associated loans. Investments in asset-backed securities are subject to similar risks.

Market conditions – The prices of, and the income generated by, the securities held by the fund may decline – sometimes rapidly or unpredictably – due to various factors, including events or conditions affecting the general economy or particular industries or companies; overall market changes; local, regional or global political, social or economic instability; governmental, governmental agency or central bank responses to economic conditions; levels of public debt and deficits; changes in inflation rates; and currency exchange rate, interest rate and commodity price fluctuations.

Economies and financial markets throughout the world are highly interconnected. Economic, financial or political events, trading and tariff arrangements, wars, terrorism, cybersecurity events, natural disasters, public health emergencies (such as the spread of infectious disease), bank failures and other circumstances in one country or region, including actions taken by governmental or quasi-governmental authorities in response to any of the foregoing, could have impacts on global economies or markets. As a result, whether or not the fund invests in securities of issuers located in or with significant exposure to the countries affected, the value and liquidity of the fund's investments may be negatively affected by developments in other countries and regions.

Issuer risks – The prices of, and the income generated by, securities held by the fund may decline in response to various factors directly related to the issuers of such securities, including reduced demand for an issuer's goods or services, poor management performance, major litigation, investigations or other controversies related to the issuer, changes in the issuer's financial condition or credit rating, changes in government regulations affecting the issuer or its competitive environment and strategic initiatives such as mergers, acquisitions or dispositions and the market response to any such initiatives. An individual security may also be affected by factors relating to the industry or sector of the issuer or the securities markets as a whole, and conversely an industry or sector or the securities markets may be affected by a change in financial condition or other event affecting a single issuer.

Investing in debt instruments – The prices of, and the income generated by, bonds and other debt securities held by the fund may be affected by factors such as the interest rates, maturities and credit quality of these securities.

Rising interest rates will generally cause the prices of bonds and other debt securities to fall. Also, when interest rates rise, issuers of debt securities that may be prepaid at any time, such as mortgage- or other asset-backed securities, are less likely to refinance existing debt securities, causing the average life of such securities to extend. A general change in interest rates may cause investors to sell debt securities on a large scale, which could also adversely affect the price and liquidity of debt securities and could also result in increased redemptions from the fund. Falling interest rates may cause an issuer to redeem, call or refinance a debt security before its stated maturity, which may result in the fund having to reinvest the proceeds in lower yielding securities. Longer maturity debt securities generally have greater sensitivity to changes in interest rates and may be subject to greater price fluctuations than shorter maturity debt securities.

Bonds and other debt securities are also subject to credit risk, which is the possibility that the credit strength of an issuer or guarantor will weaken or be perceived to be weaker, and/or an issuer of a debt security will fail to make timely payments of principal or interest and the security will go into default. Changes in actual or perceived creditworthiness may occur quickly. A downgrade or default affecting any of the fund's securities could cause the value of the fund's shares to decrease. Lower quality debt securities generally have higher rates of interest and may be subject to greater price fluctuations than higher quality debt securities. Credit risk is gauged, in part, by the credit ratings of the debt securities in which the fund invests. However, ratings are only the opinions of the rating agencies issuing them and are not guarantees as to credit quality or an evaluation of market risk. The fund's investment adviser relies on its own credit analysts to research issuers and issues in assessing credit and default risks.

Liquidity risk – Certain fund holdings may be or may become difficult or impossible to sell, particularly during times of market turmoil. Liquidity may be impacted by the lack of an active market for a holding, legal or contractual restrictions on resale, or the reduced number and capacity of market participants to make a market in such holding. Market prices for less liquid or illiquid holdings may be volatile or difficult to determine, and reduced liquidity may have an adverse impact on the market price of such holdings. Additionally, the sale of less liquid or illiquid holdings may involve substantial delays (including delays in settlement) and additional costs and the fund may be unable to sell such holdings when necessary to meet its liquidity needs or to try to limit losses, or may be forced to sell at a loss.

Investing in securities backed by the U.S. government – U.S. government securities are subject to market risk, interest rate risk and credit risk. Securities backed by the U.S. Treasury or the full faith and credit of the U.S. government are guaranteed only as to the timely payment of interest and principal when held to maturity. Accordingly, the current market values for these securities will fluctuate with changes in interest rates and the credit rating of the U.S. government. Notwithstanding that these securities are backed by the full faith and credit of the U.S. government, circumstances could arise that would prevent or delay the payment of interest or principal on these securities, which could adversely affect their value and cause the fund to suffer losses. Such an event could lead to significant disruptions in U.S. and global markets.

Securities issued by U.S. government-sponsored entities and federal agencies and instrumentalities that are not backed by the full faith and credit of the U.S. government are neither issued nor guaranteed by the U.S. government.

Investing in future delivery contracts – The fund may enter into contracts, such as to-be-announced contracts and mortgage dollar rolls, that involve the fund selling mortgage-related securities and simultaneously contracting to repurchase similar securities for delivery at a future date at a predetermined price. This can increase the fund's market exposure, and the market price of the securities that the fund contracts to repurchase could drop below their purchase price. While the fund can preserve and generate capital through the use of such contracts by, for example, realizing the difference between the sale price and the future purchase price, the income generated by the fund may be reduced by engaging in such transactions. In addition, these transactions increase the turnover rate of the fund.

Investing in inflation-linked bonds – The values of inflation-linked bonds generally fluctuate in response to changes in real interest rates – i.e., rates of interest after factoring in inflation. A rise in real interest rates may cause the prices of inflation-linked securities to fall, while a decline in real interest rates may cause the prices to increase. Inflation-linked bonds may experience greater losses than other debt securities with similar durations when real interest rates rise faster than nominal interest rates. There can be no assurance that the value of an inflation-linked security will be directly correlated to changes in interest rates; for example, if interest rates rise for reasons other than inflation, the increase may not be reflected in the security's inflation measure.

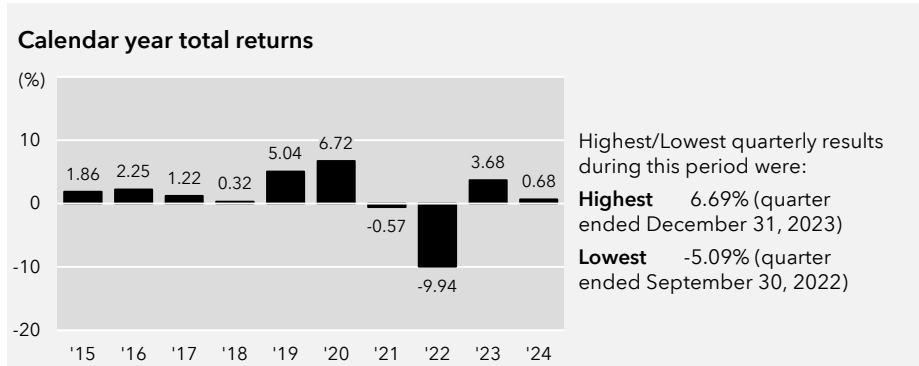
Investing in inflation-linked bonds may also reduce the fund's distributable income during periods of deflation. If prices for goods and services decline throughout the economy, the principal and income on inflation-linked securities may decline and result in losses to the fund.

Investing in derivatives – The use of derivatives involves a variety of risks, which may be different from, or greater than, the risks associated with investing in traditional securities, such as stocks and bonds. Changes in the value of a derivative may not correlate perfectly with, and may be more sensitive to market events than, the underlying asset, rate or index, and a derivative instrument may cause the fund to lose significantly more than its initial investment. Derivatives may be difficult to value, difficult for the fund to buy or sell at an opportune time or price and difficult, or even impossible, to terminate or otherwise offset. The fund's use of derivatives may result in losses to the fund, and investing in derivatives may reduce the fund's returns and increase the fund's price volatility. The fund's counterparty to a derivative transaction (including, if applicable, the fund's clearing broker, the derivatives exchange or the clearinghouse) may be unable or unwilling to honor its financial obligations in respect of the transaction. In certain cases, the fund may be hindered or delayed in exercising remedies against or closing out derivative instruments with a counterparty, which may result in additional losses. Derivatives are also subject to operational risk (such as documentation issues, settlement issues and systems failures) and legal risk (such as insufficient documentation, insufficient capacity or authority of a counterparty, and issues with the legality or enforceability of a contract).

Management – The investment adviser to the fund actively manages the fund's investments. Consequently, the fund is subject to the risk that the methods and analyses, including models, tools and data, employed by the investment adviser in this process may be flawed or incorrect and may not produce the desired results. This could cause the fund to lose value or its investment results to lag relevant benchmarks or other funds with similar objectives.

It is important to note that neither your investment in the fund nor the fund's yield is guaranteed by the U.S. government. Your investment in the fund is not a bank deposit and is not insured or guaranteed by the Federal Deposit Insurance Corporation or any other governmental agency, entity or person. You should consider how this fund fits into your overall investment program.

Investment results The following bar chart shows how the investment results of the Class 2 shares of the fund have varied from year to year, and the following table shows how the fund's average annual total returns for various periods compare with a broad measure of securities market results and, if applicable, other measures of market results that reflect the fund's investment universe. This information provides some indication of the risks of investing in the fund. Past investment results (before and after taxes) are not predictive of future investment results. Figures shown reflect fees and expenses associated with an investment in the fund, but do not reflect insurance contract fees and expenses. If insurance contract fees and expenses were included, results would have been lower. Updated information on the fund's investment results can be obtained by visiting capitalgroup.com/afis.



Average annual total returns For the periods ended December 31, 2024:	1 year	5 years	10 years	Lifetime
Fund (inception date – 5/2/11)	0.68%	-0.05%	1.03%	1.51%
Bloomberg U.S. Aggregate Index (reflects no deduction for sales charges, account fees, expenses or U.S. federal income taxes)	1.25	-0.33	1.35	2.00
Bloomberg U.S. Mortgage Backed Securities Index (reflects no deduction for sales charges, account fees, expenses or U.S. federal income taxes)	1.20	-0.74	0.91	1.51

* Effective July 24, 2024, the fund's primary benchmark changed from the Bloomberg U.S. Mortgage Backed Securities Index (the "Previous Primary Benchmark") to the Bloomberg U.S. Aggregate Index, a broad-based index that represents the overall applicable securities market, as required by the U.S. Securities and Exchange Commission ("SEC"). The Previous Primary Benchmark provides a means to compare the fund's results to a benchmark that the investment adviser believes is more representative of the fund's investment universe. There is no change in the fund's investment strategies as a result of the benchmark change.

Management

Investment adviser Capital Research and Management Company

Portfolio managers The individuals primarily responsible for the portfolio management of the fund are:

Portfolio manager/ Series title (if applicable)	Portfolio manager experience in this fund	Primary title with investment adviser
David J. Betanzos	11 years	Partner – Capital Fixed Income Investors
Oliver V. Edmonds	5 years	Partner – Capital Fixed Income Investors
Fergus N. MacDonald	14 years	Partner – Capital Fixed Income Investors

Purchase and sale of fund shares Shares of the fund are not sold directly to the general public. The fund is offered only as an underlying investment option for variable insurance contracts, and insurance company separate accounts and qualified feeder funds – and not the holders of variable insurance contracts – are the shareholders of the fund. Although the fund does not require a minimum amount for initial or subsequent purchases from insurance companies, your insurance company may impose investment minimums for your purchase of the fund.

You may sell (redeem) shares on any business day. You must sell (redeem) shares through your insurance company.

Tax information See your variable insurance contract prospectus for information regarding the federal income tax treatment of your variable insurance contract and related distributions.

Payments to broker-dealers and other financial intermediaries The fund is not sold directly to the general public but instead is offered as an underlying investment option for variable insurance contracts. The fund and its related companies may make payments to the sponsoring insurance company (or its affiliates) for distribution and/or other services. These payments may be a factor that the insurance company considers in including the fund as an underlying investment option in the variable insurance contract. The prospectus (or other offering document) for your variable insurance contract may contain additional information about these payments.