





Wealthscope User Guide

There are four integrated segments for you: **PORTFOLIOS**, **SIMULATIONS**, **PLANNING**, **TOOLS**.

I. PORTFOLIOS

See a consolidated view of your Streamer portfolios and have them analyzed on a demand. The securities currently supported in the analysis are Canadian and U.S. stocks, Canadian and U.S. ETFs, Canadian mutual and aggregated funds (except private funds), and most bank HISA funds. Account values are updated daily.

The landing page displays a list of your individual Streamer Portfolios, as well as an 'Overview' tab. Click any tab to view a *portfolio dashboard* with key portfolio information.

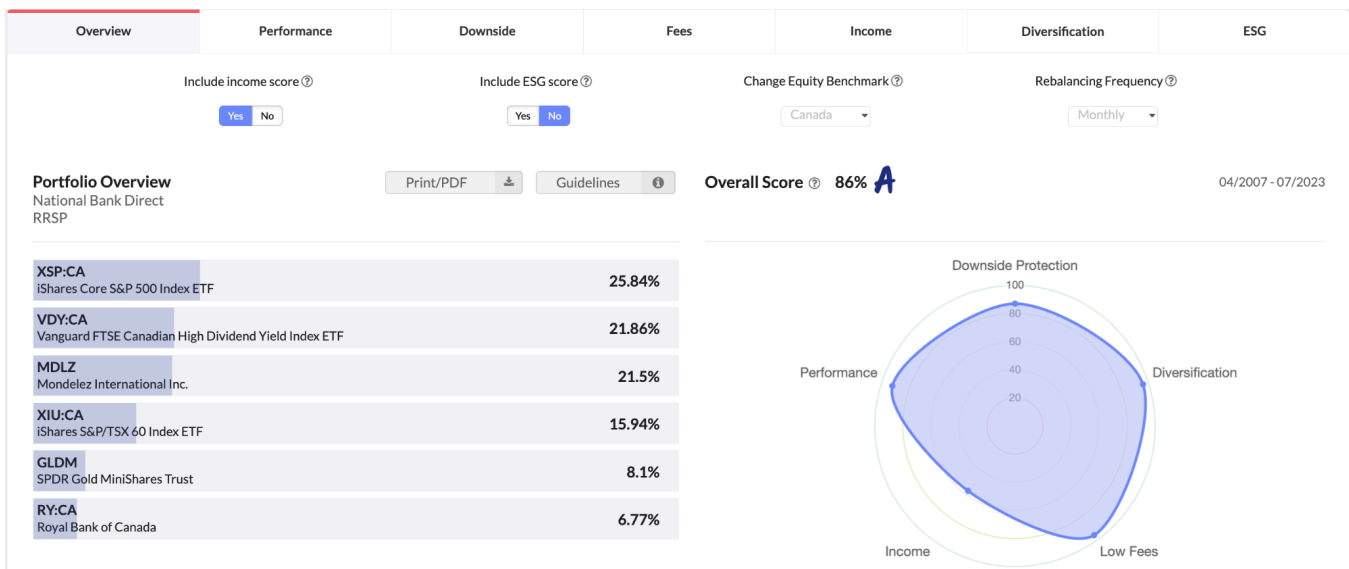
1. To add Streamer Portfolios, enter your portfolio(s) using "My Portfolio Manager" in QuoteStream. To add a new portfolio, click "Edit" and enter your ticker symbols and the quantity of shares for each security. Once saved, your portfolios will be populated on the Wealthscope landing page
2. Select 'Overview' to display an aggregation of key account information across all of the portfolios added to QuoteStream.
3. To generate your **Wealthscope Portfolio Scorecard** (detailed below) for an investment portfolio, click the "Analyze" button in the top right corner of the Portfolio Dashboard. USD accounts can be analyzed in CAD or USD. 
4. Alternatively, you can select a *specific* group of accounts to be analyzed on the '**My Streamer Portfolios**' page. Simply toggle 'Group portfolios for analysis?' at the top. Once you are done selecting accounts, click 'View Group' then 'Analyze'. When grouping accounts in different currencies, USD accounts are converted to CAD. 
5. Click 'Stock Exposure Lookup' in the top right corner of the 'My Streamer Portfolios' module to complete a reverse lookup of your exposure to any stock across all of

your accounts in Wealthscope (linked & manually entered). Click the blue bars to see a breakdown of your direct and indirect exposure. You can also toggle to see your exposure expressed in a “%” (percentage of all accounts) or “\$” (actual dollar amount).



WEALTHSCOPE PORTFOLIO SCORECARD

A portfolio will be given an overall letter and percentage grade, as well as individual grades for **6** important portfolio dimensions: **risk-adjusted performance, downside protection, diversification, fund fees, income, and ESG.**



Control Panel

The control panel allows you to customize your Scorecard.

i. Include All & Replace

Wealthscope scores a portfolio in each dimension based on how well the portfolio has performed during the specific time period in question. The period is dictated by how far the securities go back in history. If the securities are relatively new, they may be filtered out (see “Guidelines” to the left of “Overall Score” to learn more) and displayed with a red outline. To accommodate these holdings, you can replace them with a similar proxy by clicking the two-way arrow to access the “Replace” function. Alternatively, toggle “Include All Holdings” to “Yes” in the top control panel to override the guidelines. For some ETFs

with a short history, we use the underlying index returns (minus the MER) prior to inception in the portfolio analysis.

If included, short history holdings can potentially skew the analysis and the Scorecard should be interpreted with caution.

ii. Include Income Score

The default is YES, meaning that the income score is included in the calculation of the Overall score. You can toggle to NO to exclude income if it is not an important goal for the portfolio.

iii. Rebalancing Frequency

By default, the Scorecard assumes the portfolio will be rebalanced to its current weights each month. The “Rebalancing Frequency” toggle allows you to dynamically change the default assumption to “Quarterly” or “Monthly” and generate an analysis that more accurately matches your investment strategy.

iv. Custom Benchmark

Your portfolio is analyzed against a benchmark for Performance and Downside Protection, which is selected automatically depending on which one of the eleven asset allocations your portfolio is closest to (100% equity, 90% equity - 10% fixed income ... to 10% equity - 90% fixed income, or 100% fixed income). The default equity portion of the benchmark is the S&P/TSX Capped Composite ETF, but you can choose a global equity index instead (see dropdown at the top-right of the Overview page). Or, you can create a custom benchmark.

v. ESG Score

Wealthscope partners with OWL Analytics to bring you ESG scores for each of your holdings as well as your portfolio as a whole. The default of this toggle is set to NO. You should always check the ESG coverage for the portfolio’s holdings first by clicking on the ESG tab at the top, before including the ESG score in the Overall score.

Dimension Scores

Click on each tab at the top of the Scorecard to see the details for each dimension.

Performance – an evaluation of past performance based on risk-adjusted returns as well as annualized returns relative to the benchmark, which is a portfolio of two index ETFs that

has a similar asset allocation of stocks and bonds to your portfolio. A higher score is more desirable.

Downside Protection – an evaluation of the portfolio’s ability to limit losses when there is a stock market downturn. Downside capture, maximum drawdown, and downside risk relative to the benchmark portfolio are used for this score. A higher score is more desirable.

Diversification – an evaluation of your portfolio’s ability to diversify risk, scored in terms of the portfolio’s weighted average pairwise correlation and the following three dimensions, across regional stock markets, macroeconomic factors, and global business sectors. A higher score means that your portfolio’s risk exposures are more spread out and are more desirable.

Fund Fees – an evaluation based on your portfolio’s weighted average management expense ratio (MER). MER is a fee charged by ETFs and mutual funds. Depending on the series (e.g., A), it may include a trailing commission that compensates the advisor who sold the fund. Please note that fund returns are reported net of MER. Additional advisory or trading fees are not included in this score. When a MER is unavailable for a given fund, it will be replaced by the category average; this will be indicated in a message to the right of the MER value. A higher score indicates lower fund fees, which is more desirable.

Income – this refers to income such as dividends and fund distributions. It is the weighted average yield of the portfolio. The maximum is set at 5%, meaning that a portfolio with a yield of 5% or more will receive a score of 100%. A higher score represents a higher income yield. Depending on your investment strategy, you may or may not be looking for income from your investments.

ESG – ESG ratings for stocks and funds are powered by OWL Analytics, a big data analytics firm specializing in ESG research. Please note that ESG ratings are not evenly distributed. For example, very few stocks and funds have ESG ratings above 80 and a 0-100 scale currently. Wealthscope takes this into account and rescales the ratings when grading the ESG dimension of the portfolio. Please note that not all holdings have ESG coverage.

To Print or Download a PDF of your Scorecard, visit the Portfolio Overview tab and click the “Print” button located above the holdings list.

Additional Scorecard Tools:

1. **Compare** an account with a portfolio previously saved in the **SIMULATIONS** segment (see below) with a ‘**What-If**’ portfolio you specify on the fly. The ‘Compare’ function (the Scale icon) can be found on the red panel of any **Wealthscope Portfolio Scorecard** on the left.



2. **Replace** an excluded holding to due its short history with a proxy in the Scorecard using the 'Replace' (two-way arrows) icon. **Note:** The replace icon will only appear beside holdings that have been excluded due to short history. To read Wealthscope's exclusion rules, hover over "Guidelines" in the Scorecard to the left of 'Overall Score'.

Disclaimer: The **Wealthscope Portfolio Scorecard** is based on an objective, data-driven evaluation of each portfolio dimension. It provides a useful tool for analyzing and comparing portfolios within the same risk category or asset allocation to help you identify opportunities for further research. It should not be considered a recommendation to buy or sell individual securities or portfolios. A well-known disclaimer applies – past performance is not necessarily indicative of future performance.

II. SIMULATIONS



There are **4** portfolio builders designed for your research in the **SIMULATIONS** segment. Select "Create a New Portfolio", and you will find:

- **DIY Portfolio Builder:** A quick way to test portfolio ideas by inputting any Canadian and U.S. stocks, ETFs, and Canadian mutual and segregated funds (except private funds) using their tickers/fund codes and corresponding weights. You can also allocate weights to Bitcoin and/or Ethereum here to see their impact.

The following portfolio builders are developed by Wealthscope (hence the logo next to their names):

- **ETF Portfolio Builder:** Pick your own asset mix from different asset classes. You can see the ETFs that track each asset class by clicking the "Execute" (money) icon on the red panel of the Portfolio Scorecard on the left. This is an excellent place to build benchmark or core portfolios.
- **SmartRisk Portfolio Builder:** Machine learning is leveraged to generate ETF model portfolios for tactical asset allocation, using 32 asset categories. You can use it to optimize specific risk exposures, including human capital. These models are perfect to use as customized core portfolios. Like the ETF Portfolio Builder, click the "Execute" (money) icon to see the list of ETFs.
- **Asset Allocation Using Machine Learning Builder:** Input your desired holdings and use a technique called Hierarchical Risk Parity (HRP) to determine the optimal portfolio weights to achieve diversification. (**Note:** Holdings must have at least 3 years of history.)

Notes:

- I. Once you have built a portfolio, you will automatically receive a **Wealthscope Portfolio Scorecard**.
- II. You can **edit/save** these portfolios using the icons on the left panel of the **Wealthscope Portfolio Scorecard**. Once saved, you can use them to compare against your actual investments or against other saved portfolios (using the 'Compare' function in the Scorecard, which is the Scale icon on the left), or for use in **PLANNING** to simulate returns.  
- III. Select 'Revisit a Saved Portfolio' to see **SIMULATIONS** saved from Portfolio Builders and What-If Comparisons (i.e. 'From Your Accounts').
- IV. Select 'View our Model Portfolios' to view 5 Wealthscope-built portfolios that are optimized for different risk profiles. Use them for comparisons and in **PLANNING**.

III. PLANNING (Premium users)

These are tools crafted separately for the accumulation and the decumulation phases of retirement planning. The **Target Saving** tool is multi-purpose and can be used for general financial planning, such as saving for children's education.

Accumulation

1. Select Retirement Blueprint to complete a 4-part questionnaire that guides you to:
 - a. Calculate annual spending needs net of expected retirement income such as pension benefits.
 - b. Determine your **Target Wealth** at retirement, which is the desired size of your nest egg.
 - c. Determine your **Target Saving**, which is the monthly saving required from now until retirement to achieve your Target Wealth. For simulations, you can choose a Wealthscope Model Portfolio or a portfolio you have previously saved using our Portfolio Builders in the **SIMULATIONS** segment.
 - d. **Target Wealth** and **Target Saving** assume that your investments are held in registered accounts. However, that may not be the case. Rather than making assumptions about your future tax brackets, Wealthscope calculates the expected taxes from the investment portfolio for the next year. This amount (if any) represents the extra savings required, and will change with your tax

bracket. This calculation uses your current income and contribution room.

- e. The Blueprint is best suited for individuals that have RRSP and TFSA contribution room. In 2024, the maximum combined contribution room is $\$31,560 + \$7,000 = \$38,560$ for the calendar year. This is equivalent to saving \$3,213 per month. If the contribution room is exhausted and part of the savings are held in a non-registered investment account, the Blueprint will calculate the expected taxes owing for the coming year. This amount (if any) represents the extra savings required and future amounts will change with your income tax bracket.
 - f. Under **Summary**, you will see the summarized results of the Retirement Blueprint. It includes context boxes that display adaptive insights to help you extract more actionable information from the financial plan.
 - g. Save the blueprint at the bottom of the Summary page. Once saved, you can edit and change scenarios directly from the Blueprint. You can also download the Blueprint as a PDF.
2. Select **Target Saving** to calculate the required monthly savings for any financial goal - not just retirement planning.
 3. If you already know how much you want to spend per year after you retire, select **Target Wealth**. Target Wealth determines the accumulated savings needed by your desired retirement age. You will see three different figures at varying likelihood of success.
 4. Select **Revisit Saved Blueprints** to view a previously saved Retirement Blueprint. You can edit previously inputted information.

Decumulation

1. Select “Portfolio Longevity” to see how long your savings will last in retirement, versus their conditional life expectancy, using different investment options.
2. Select “Optimal Drawdown” to see how much you can afford to spend each year with your savings and retirement income, and from which sources, such that taxes are minimized and a smooth lifestyle is maintained. The assumptions and how this tool works are described at the top in the “Model Features & Assumptions” tab.
3. “Optimal Drawdown with Target Spending” is for retirees who have an annual spending amount in mind and are not at risk of outliving their savings. This tool shows how to drawdown savings from various sources in order to minimize taxes.

You will see a comprehensive breakdown of retirement income sources, tax burden, and investment account projections over their planning horizon.

TOOLS

Wealthscope also provides useful tools to help you better understand your investments and complete investment research so you can make informed decisions before your next trade. Navigate to the Tools tab to see the tools available.

Stock Exposure Lookup - Complete a reverse lookup of your exposure to any stock across all of your accounts in Wealthscope (linked & manually entered). Click the blue bars to see a breakdown of your direct and indirect exposure. You can also toggle to see your exposure expressed in a “%” (percentage of all accounts) or “\$” (actual dollar amount).

Fund Lookup - Search for key facts and other pertinent information about any North American ETFs or Canadian Mutual Funds. Enter the Fund Code/Ticker or name of the fund in the search bar to see the fund facts, historical performance, the fund breakdown and the top 10 holdings in the fund. For bond funds, Wealthscope will also display the Credit Quality of the holdings.

Fund Comparison - Compare up to 4 North American ETFs or Canadian Mutual Funds in a side-by-side comparison table. Enter the Fund Code/Ticker or name of the fund to add them to your comparison. Fund Comparison has 6 key sections: Key Facts, Fund Growth, Annual Returns, Breakdown, Top 10 Holdings, and Fund Metrics. Use this tool to compare funds and decide between funds with greater precision.

Correlation Matrix - Estimate the correlation amongst a set of up to 5 securities to see how closely they move together over time. Simply enter the Ticker/name of the fund into the search bar to start adding them to the Correlation Matrix. This tool is great for investors looking to improve diversification in their portfolios, and ultimately minimize portfolio risk. If a correlation coefficient is closer to +1, including both assets in the portfolio will not be effective in lowering risk.

OAS Estimator - Use this tool to estimate the amount of Old Age Security benefits you will receive in retirement.

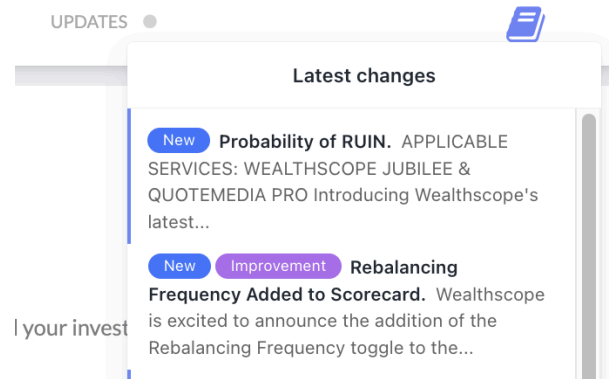
CPP Estimator - Use this tool to estimate the amount of Canada Pension Plan benefits you will receive in retirement.

Charting Tool - Search for a ticker/name to start charting the growth of up to 5 securities and compare their historical returns over time. The chart will go back as far as the longest *common* history of the securities you have charted. Click the ‘Portfolio’ (folder icon) to add portfolios you have saved in the **SIMULATIONS** module to the chart.






Fund Allocator - Use this tool when setting up a new investment account. Tell Wealthscope how much you plan to invest, and the allocation (%) to each security you want to invest in. We'll calculate how many shares of each holding you should buy to achieve your target portfolio.

UPDATES

Click the 'Updates' tab to see Wealthscope's newest features and latest improvements. When a new update has been applied, you will see a red notification beside 'Updates'. Click on a heading to view the full update. Click 'Wealthscope Retail Platform' at the bottom of the updates list to view Wealthscope's full changelog.



Icon Legend

	<p>Hover over a “?” symbol for more information on a particular subject</p>	<p>Beside certain text</p>
	<p>Security has been excluded in the analysis because it has insufficient history / It is unmatched / It is not supported for Portfolio Analysis</p>	<p>To the right or left of security</p>
	<p>In a rebalancing system: when one or more weights exceed their maximum deviation, or when holdings in an account have been sold and/or added.</p>	<p>On an account tab</p>
	<p>Compare your current investments to a ‘What-if’ portfolio specified on the fly, or to a saved portfolio from the Portfolios segment.</p>	<p>On the red bar to the left of the Portfolio Scorecard</p>
	<p>Indicate that a rebalancing system has been set up for an account</p>	<p>On an account tab</p>
	<p>Click to ‘Replace’ a holding that has been excluded in the analysis with a proxy security instead.</p>	<p>To the right of the specific holding in the Overview tab.</p>

Grading Scheme

A	80 - 100
B	70 - 79
C	56 - 69
D	21 - 55
F	Below 21

Contact Us

If you have any questions, please contact Wealthscope at contact@wealthscope.ca.