Financial Mappers® Pro

Masterclass

Modelling Tools

Version: 26.07.2019

Please Note: Information in all Masterclass Documents is intended to assist the Financial Adviser and Paraplanners to get maximum benefit from Financial Mappers and its many features. This information should not be considered as giving Financial Advice or advice you should pass on to your clients.

Glenis Phillips B Ed., SF Fin

Designer of Financial Mappers
Director Plencore Wealth Ltd

glenis.phillips@financialmappers.com.au (07) 3216 4132 (Direct Line) 0411 086 532

1300 162 945

Plencore Online Pty Ltd is a wholly owned subsidiary of Plencore Wealth Ltd and is the online retail section of the company. For additional information about the software, contact Glenis Phillips, the concept designer. (glenis.phillips@financialmappers.com.au or phone Direct Line)

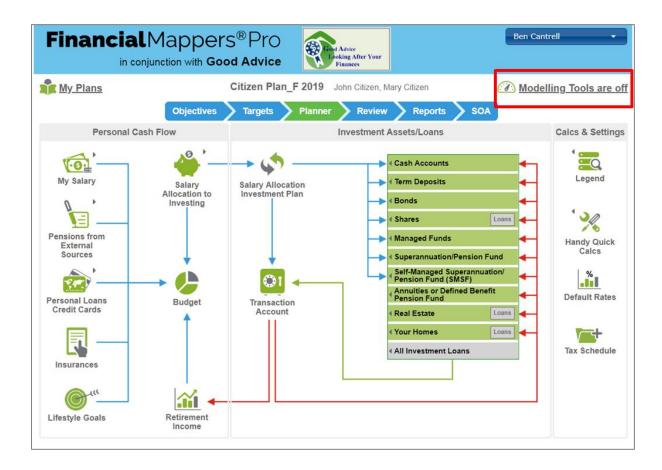
Table of Contents

INTRODUCTION	2
Choosing Data	3
Choosing Data	
Modulators	3
Special Rules	4
Negative Returns	4
Bonds	
Managed Funds & Superannuation	4
REPORTS	5
	-
HISTORICAL DATA	6
Economic Cycles	6
Historical Data	9
Indicative Effects of Selected Historical Data	14
MODULATORS	15
Income Modulator	15
Economic Cycles	15
Default/Custom Modulation	16
Loan Modulator	17
Economic Cycle	17
Default/Custom Modulation of Fixed and Variable Interest Rates	18
Capital Growth Modulator	19
Economic Cycles	
Default/Custom Modulation	20
Bonds	21
CONTACT	23

Introduction

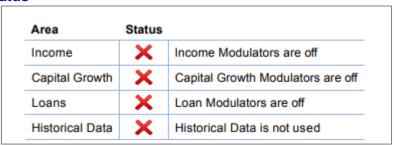
Financial Mappers Pro has an extensive range of Modelling Tools. This document will show you how to gain maximum benefit from these tools. Note the red box. It can be very easy to forget to turn off your *Modelling Tools* after a demonstration. For this reason, the ON/OFF option is always on display.

The plan used for this document will be the Savings Phase (15 years) of the Pott's Plan.



It is recommended that when you create your own reports, each report should include the *SmartPanel* showing which Modulators are active.

Modulators: Status

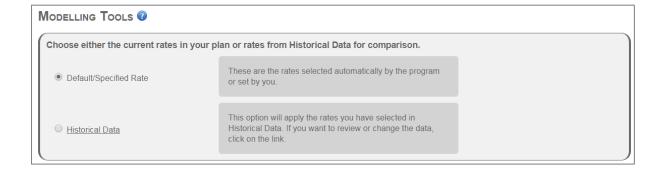


Choosing Data

When working with your plans, you would normally use a combination of the Default and Specified Rates. Using these rates will give you projections based on the assumption that the selected rate will remain the same throughout the plan.

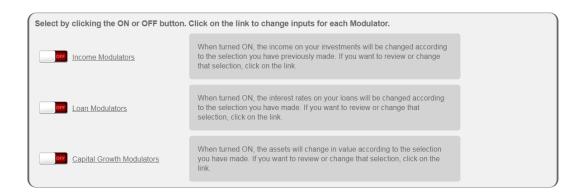
This has been a long-held practice when constructing any financial model. We all know that in real life, the rates will change constantly, however for long term future projections, it has been normal to use these types of projections.

In this section, you have the option of using an alternative which is based on Historical Data from the Year 2000.



Modulators

There are three types of Modulators which can be used in any combination. However, it is not recommended that you use the Income and Capital Growth Modulator at the same time. The reason is that apart from Rental Income, *Investment Income* is calculated as a Percentage of the Asset Value. Thus you may "double-dip" by increasing the value of the asset and the percent return for income. You can use Historical Data with Modulators.



There may be circumstances under which you choose to keep some modulators permanently on. For example, you may believe that if you are making a 50-year plan, then using the lowest cash rates and lowest interest rates on loans in many years, is not a sound practice. Therefore you could turn on the Income Modulator to raise interest rates on cash type assets and loans at some future date – say in 10-year's time.

Special Rules

Negative Returns

When using these modulators, lowering the rate, may create a negative return. When this occurs, the rate is reduced to 0.001%. There is also a second rule which states that if the management fees are more than the income, the management fees are reduced to the value of the income. These rules are designed to ensure the software does not give false results when using modelling tools.

Bonds

In addition, neither Historical Data or the Income Modulator is applied to Bonds. Instead, the program will demonstrate the change in the value of the Bond should interest rates either rise or fall.

If you did want your Bonds to be included, then you should use the option *Term Deposits*. The Modulator selects the rate nominated for the first year of the TD and this rate remains for the length of the TD. The only other difference in the calculation is that the income on Bonds is calculated twice yearly and TD's at the end of each year.

Managed Funds & Superannuation

The program assumes a *Managed Fund* is composed of the following:

20% Cash, 40% Equities and 40% Property

The program assumes *Pension* accounts are composed of the following:

30% Cash, 40% Equities and 30% Property

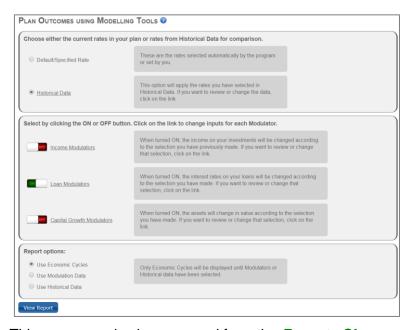
As the **Superannuation/Pension** account (<u>but not SMSF</u>) has a combined Income and Capital Growth Return, that asset is included in the Capital Growth Modulator and not Income Modulator.

Reports

On each page, there is a link back to the Modelling Tools selection page. At the bottom are radio buttons to select one of three buttons.



The radio buttons for *Use Modulation Data* and *Use Historical Data* are only displayed when one of the options is active. The *Use Economic Cycles* is always displayed and does not require activation. The program automatically creates the report which applies four 10-year Economic Cycles to the first 10-years of the plan.



This page can also be accessed from the *Reports Chevron*.

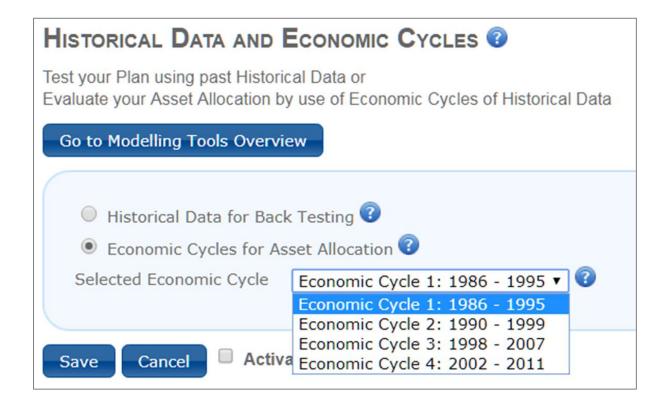
(If the radio buttons are not displayed go to this section to activate)



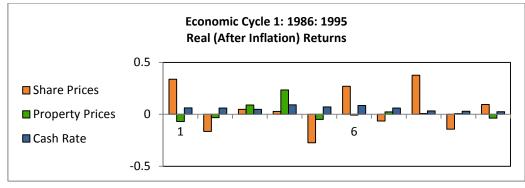
Historical Data

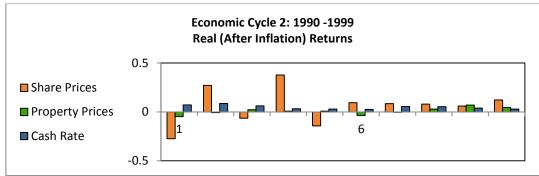
Economic Cycles

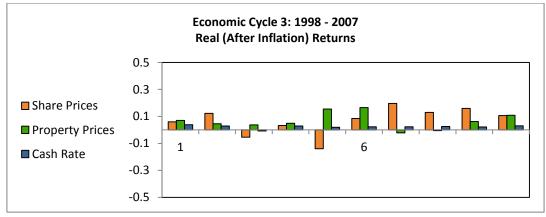
The program defaults to the opening on *Economic Cycles* where you may select one of four cycles

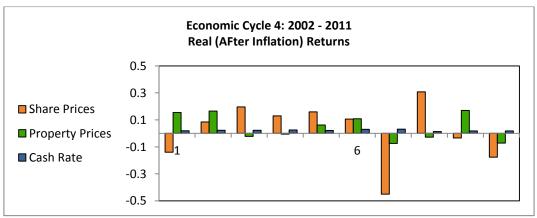


These cycles are based on four 10-year economic cycles which occurred in Australia between 1986 and 2011. Of these cycle, equities or real estate outperforms the market in one cycle each. In the other two cycles, both perform approximately the same, and in the other, the both perform poorly. This was during the GFC. These are graphs displaying the four cycles.

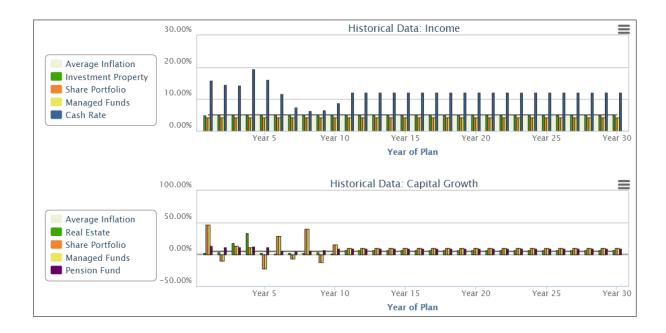








When you select one of these cycles, the first 10-years will use the actual rates for each year, and thereafter the average is used for the remainder of the plan.



This is an example of the Report *Use Economic Cycles*. The grey columns are the actual results of the plan. Note how at the end of the 10-years, the plan results are about half-way between the four cycles.

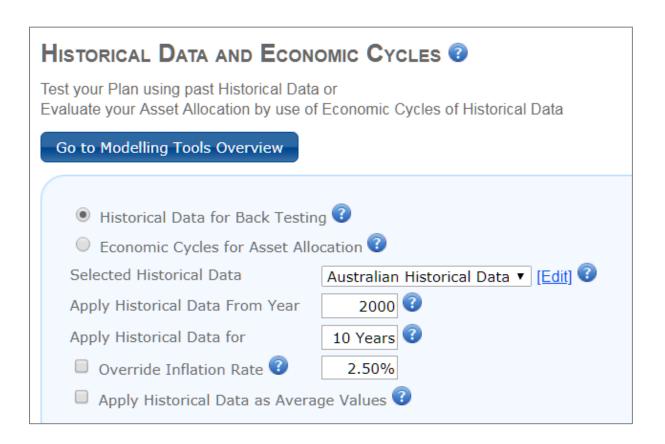


In Year 5, there appears to be an increase in the value of the investments. The reason is that the home was sold at the end of Year 5, and the funds from the sale are deposited into the **Transaction Account**. At the start of the following year, a new home was purchased with those funds. All values are calculated at the end of the year. This is a graph of the assets and home.



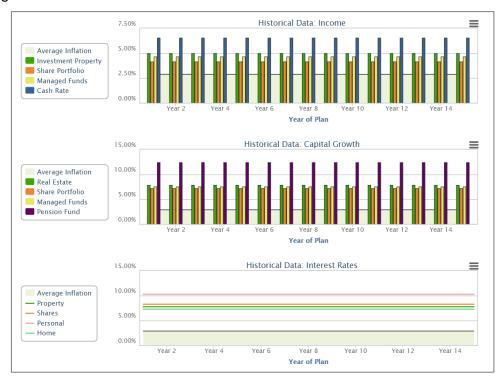
Historical Data

When the option, Historical Data for Back Testing is selected, there are a number of options. Which can be selected. These are the default options.

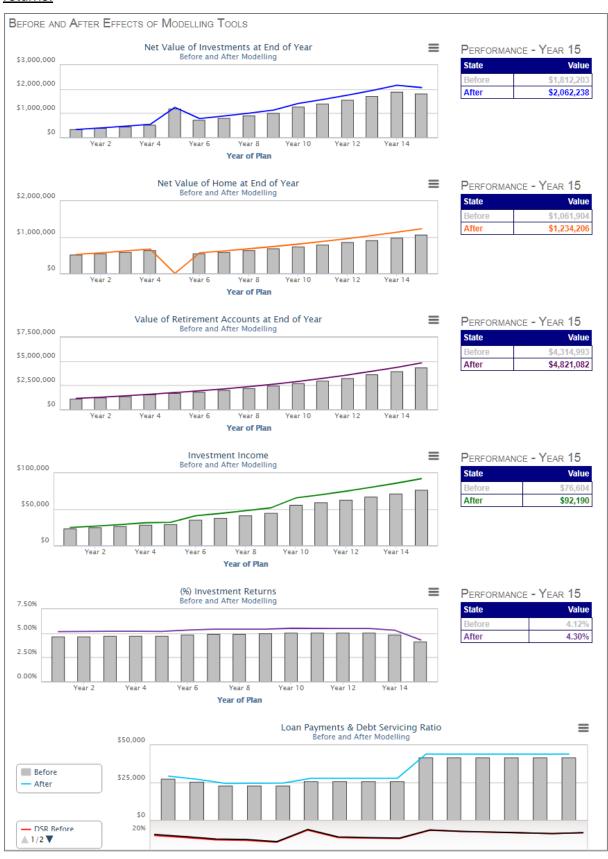




If the option to use Apply Historical Data as Average Values, the graphs would change to the following.



The report generated has a set of eight graphs showing the before and after <u>using average</u> <u>returns.</u>



The report generated has a set of eight graphs showing the before and after <u>using actual</u> returns for the first 10-years.



Indicative Effects of Selected Historical Data

At the end of the page, three graphs display the indicative effects on the change in asset value, interest earned on interest-earning accounts and the monthly payments of a 20-year home loan. This is a good place to quickly demonstrate the effect of changing economic circumstances.



Modulators

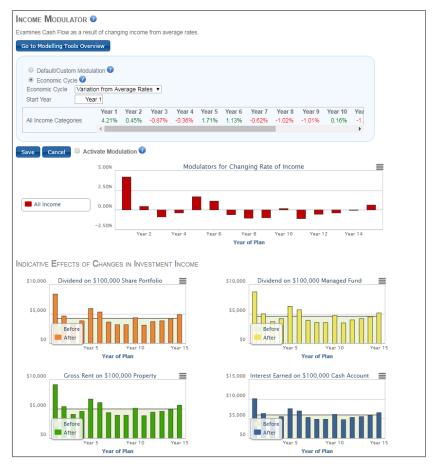
Income Modulator

Economic Cycles

The program defaults to using **Economic Cycle**. The cycles are based on a change in the <u>90-Day Bank Bill Rate</u>. Economic Cycles can be commenced in any nominated year. These are two cycles to choose from:

- Variation from Average Rates: Shows the yearly changes of returns from the average return of the same period.
- Extreme reduction in Income: Shows the variation of returns from the average of the previous time period. Given the current extremely low-interest rates, this cycle is probably not relevant at the current time.

This is an example of the first option, together with the graphs for Indicative Effects of Changes in Investment Income.



Default/Custom Modulation

The program defaults to a falling interest rate from Year 2 to Year 7, then rising back to the 0% change. These rates are applied to all investment types. Any of these may be deselected.





The user can customize the percentage change for any of the four asset types. The defaults can be *Reset*.

<u>Note on Rental Income</u>: The Gross Income is established in the first year of property ownership and thereafter increased at the rate of Inflation. Where the Income Modulator is activated, the Gross Rent for each year is changed by the nominated rise or fall in income.

Loan Modulator

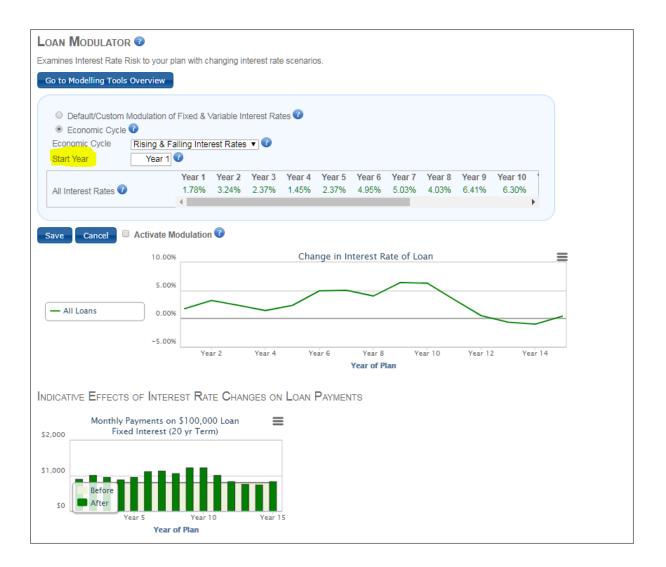
Economic Cycle

The program has a selection of economic cycles.

- Rising and Falling Interest Rates (default)
- High Interest Rates
- Low Interest Rates

The interest rates are applied to all loans. That is loans with either variable or fixed interest in the nominated year.

Each cycle can commence in any year.

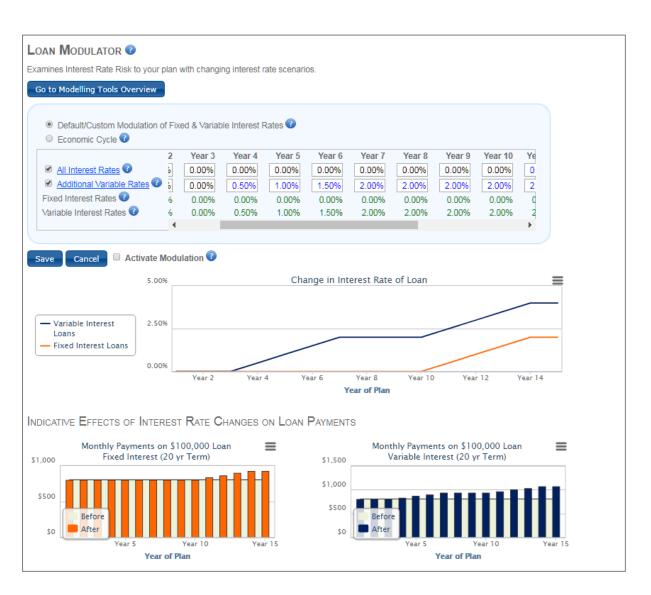


Default/Custom Modulation of Fixed and Variable Interest Rates

There may be times when you want to demonstrate that in the future interest rates may be higher for all loans. When this option is selected, loans listed as Fixed Rate in that year will also rise.

In addition, loans with Variable Rates may have an additional change in rates. So the fixed rate is applied first and then any value for Variable Rates is added, but only applied to Variable Rates.

The program defaults to Variable Rates starting to rise in Year 4, and Fixed Rates in Year 11. The user may customize these changes.



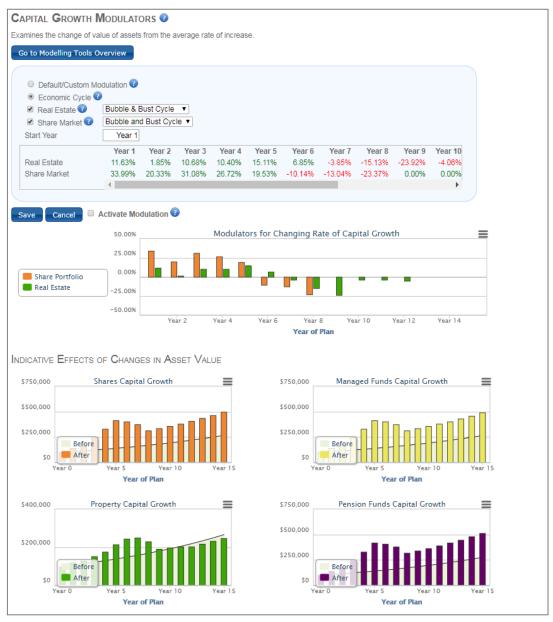
Capital Growth Modulator

Economic Cycles

There are separate economic cycles for *Real Estate* and the *Share Market*. Where Managed Funds are part of the investments, the cycle for the Share Market is used. The cycles for each asset class are:

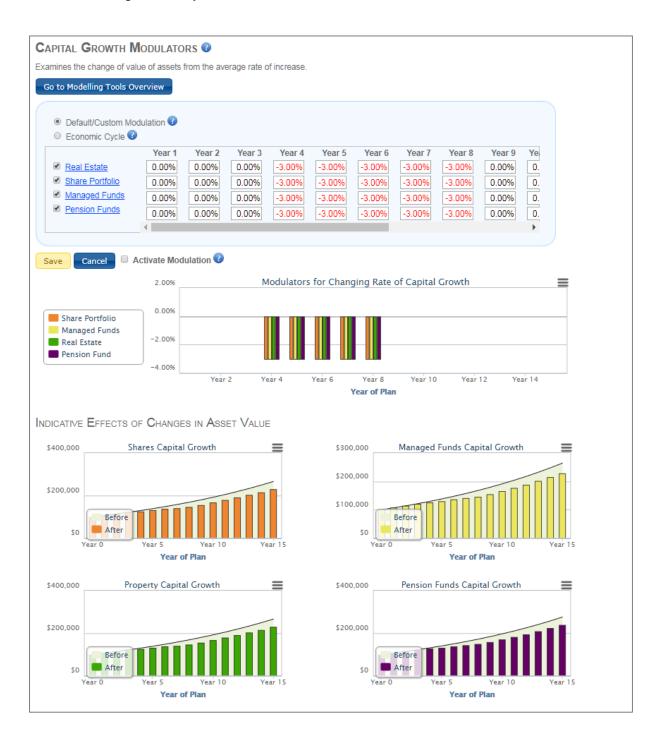
- Bubble and Bust (default)
- Rapidly Rising Prices
- Rapidly Falling Prices

The cycle can commence in any year.



Default/Custom Modulation

The program defaults to a 15% fall in asset prices over a 5-year period, been Year 4 and Year 8. The changes can be customized and then reset to the default values. Any of the four asset categories, may be deactivated.



Bonds

Interest Rates on Bonds are not changed when the Income Modulator is activated. However, it does allow the demonstration of a change in price value of a bond should bond rates change.

The program does not allow the *Early Redemption* of either Term Deposits or Bonds.

However, it is important that you can <u>explain and demonstrate</u> the change in **Bond Value** if the bonds are redeemed early.

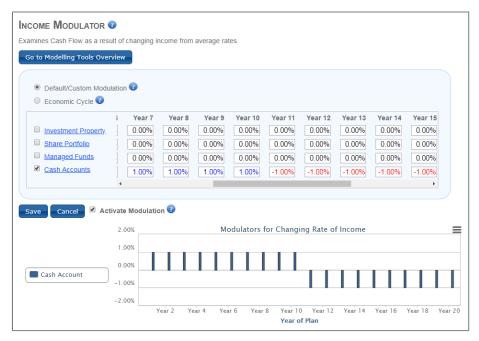
- If interest rates RISE, the value of the Bond will FALL
- If interest rates FALL, the value of the bond will RISE

To accommodate this demonstration, the *Income Modulator* is activated, using both a higher and lower Interest Rates.

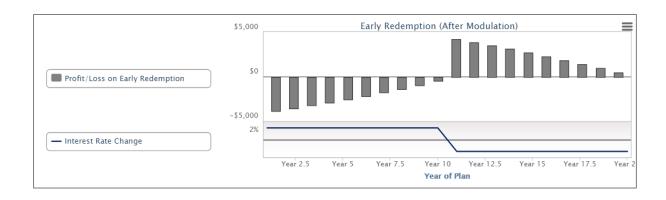
Unlike the *Term Deposit* account, *Interest Rates on Bonds* do <u>not change</u> when the Income Modulator is activated.

However, at the bottom of the Data View, the Value of the Bond if it is Liquidated. Is displayed, together with either the profit or loss.

On the *Income Modulator*, the <u>Change in Interest Rate</u> has been a **Rise of 1%** of for the first 10-years and a **Fall of 1%** for the last 10-years. A new bond is purchased in Year 1 and Year 11.



The *Graph View* demonstrates the **Profit** (above the Y-axis) and the **Loss** (below the Y-axis) for each year the bond is held.



Early Redemption Years 1 - 5 Savings Phase

Early Redemption 🕡					
Value of Bonds if Liquidated	\$46,150	\$46,452	\$46,769	\$47,103	\$47,456
(+) Profit (-) Loss if Liquidated	-\$3,850	-\$3,548	-\$3,231	-\$2,897	-\$2,544
Interest Rate Change	1.00%	1.00%	1.00%	1.00%	1.00%

Early Redemption Years 6 - 10 Savings Phase

Early Redemption 🕡					
Value of Bonds if Liquidated	\$47,827	\$48,217	\$48,629	\$49,062	\$49,519
(+) Profit (-) Loss if Liquidated	-\$2,173	-\$1,783	-\$1,371	-\$938	-\$481
Interest Rate Change	1.00%	1.00%	1.00%	1.00%	1.00%

Contact

Glenis Phillips B Ed, SF FIN

Designer of Financial Mappers **Author of Map Your Finances Founding Director of Plencore Wealth Ltd**

glenis.phillips@financialmappers.com.au

Direct Line: 07 3216 4132 Mobile: 0411 086 532

As the designer of Financial Mappers, Glenis is the most suitable person to answer all your questions about Financial Mappers.

Plencore Wealth Ltd ABN: 49 601 251 192

Plencore Online Pty Ltd

(wholly owned subsidiary of Plencore Wealth Ltd)

ABN: 79 601 265 598

PO Box 133, Hamilton, Brisbane, QLD, Australia, 4007. Unit 135/37 Harbour Road, Hamilton, Brisbane, Qld., Australia 4007 P: 1300 162 945

E: admin@financialmappers.com.au

F: FinancialMappers T: @FinMappers Y: Financial Mappers

W: www.financialmappers.com.au