

## Yield Targets and Bond Buying – an Assessment

- **YT was an effective low- cost policy in those critical early stages of COVID.**
- **If QE had been introduced in the early stages of COVID instead of YT the extra cost (mark to market) to the RBA's balance sheet would now be around \$12 billion.**
- **The market disruption when YT was abandoned would have been limited if the Bank had not extended the target bond from April 2023's to April 2024's. In hindsight July 2022's would have been the optimal choice. The guidance to support a July 2022 program would have been reasonable and not attracted the severe criticism associated with the April 2024's.**
- **Today's mark to market cost to the RBA's balance sheet of QE is around \$37 billion.**
- **After resisting for most of 2020 the RBA felt obliged to follow other central banks into QE to protect the competitiveness of the AUD. The RBA should be congratulated on that caution.**
- **With Governments protecting household and business incomes through massive fiscal support complemented by highly stimulatory conventional monetary policy; the benefit of printing money and boosting asset prices through QE during COVID is questionable and should be critically evaluated by all central banks.**
- **The RBA's upcoming review of the QE program is a welcome initiative in that regard.**

Last month the Reserve Bank released its analysis of its Yield Target policy (YT). This policy was introduced in March 2020 and operated until November 2021. March 2020 was the time when the Bank assessed the need for unconventional monetary policy to assist the Australian economy to deal with the shocks and massive potential downside risks of Covid.

Unlike other central banks the RBA decided to use YT rather than the more conventional policy of a bond purchase program in March 2020. A bond purchase program was not introduced until November 2020.

From March 2020 the RBA purchased \$36 billion in bonds (around \$13 billion in April 2023's and \$23 billion in April 2024's) to support the yield curve target.

An additional \$44 billion was purchased to ensure the smooth functioning of the bond market particularly in the early stages of Covid (around \$33 billion).

It is reasonable that if the Board had adopted a bond buying program from March 2020 the "smooth functioning" purchases would not have been necessary.

**How many bonds would have been bought if the RBA had adopted a bond buying program from March 2020?**

At the November 2020 Board meeting the Bank announced that it would begin its bond buying program.

The program was to initially entail the purchase of \$100 billion in bonds over the next six months.

If the program had begun in March 2020 and was at the same pace as the announcement in November 2020, the RBA would have purchased around \$135 billion in bonds by November 2020 (eight months at a \$100 billion per six months pace).

It seems unlikely that if the program had been introduced in March it would have been curtailed any earlier than February 2022. Recall that the Board had decided to review the program at the November 2021 Board meeting but deferred the assessment to February due to the unexpected disruptions from the extensive "delta lockdowns" in both NSW and Victoria over the July-November period.

The purpose of YT was primarily to lower government bond yields; private sector rates and the AUD.

In its report on the YT the RBA noted that it "was seen as a more direct way of achieving the objective of low funding costs "whereas a bond purchase program would have lowered bond yields, but it would have done this indirectly."

Notably, the immediate impact of the announcement of YT led to the rate on three-year bonds falling from 0.58% to 0.34%

Eventually the yields settled near the RBA's target of 0.25%.

No such immediate impact on bond rates was achieved during the bond buying program.

### What is the cost of the bond buying program?

Consider the mark to market cost to the RBA's balance sheet of an additional \$135 billion in bond purchases if the bond purchase program had begun in March 2020 instead of YT.

The average maturity of the Bank's current bond portfolio is around six years.

If we assume that all the theoretical \$135 billion of purchases between March and November 2020 would have been at maturities that are now around six years at an average yield of 0.46% (the monthly average yield for those bonds over the March to November period) we calculate that the mark to market "loss" on this share of the portfolio would be around \$19 billion.

This theoretical loss should be adjusted for the \$44 billion of "market function" bond purchases that, most likely, would not have been required if the Bank was already engaging in bond purchases. That adjustment reduces the theoretical mark to market loss to around \$ 12.8 billion.

The RBA purchased \$36 billion under YT distributed between April 2023 and April 2024 bonds, at 0.25% and 0.1% respectively, for a total mark to market loss of around \$1.2

billion. That would lower the net market loss of the earlier bond buying program to \$11.6 billion.

Overall, the Reserve Bank purchased \$281 billion in AGS and semi's during the actual bond buying program.

We analyse the overall portfolio at current market rates and the historical purchase rates to assess a total mark to market loss of around \$37 billion.

In its assessment of the YT program the RBA notes that "The yield target helped amplify the effect of the relatively modest reduction in the cash rate target, leading to historically low fixed and variable lending rates for borrowers. In response, housing and business credit growth picked up to the fastest pace in over a decade... the unusually strong house price growth ... was an important impetus in progress to employment and inflation goals through the channels of dwelling investment and consumption."

While this assessment of the effectiveness of YT is reasonable there would have been a reinforcing influence from the Term Funding facility.

**It is still appropriate to conclude that the YT policy was extremely effective in supporting the goals the Bank set itself in those 'dark days' of early 2020.**

From the perspective of the RBA's balance sheet the policy was also 'low cost'.

Those objectives were much more effectively achieved than through the traditional bond buying channel at a much lower cost to the RBA's balance sheet and reduced the 'crowding out' effect on market liquidity which resulted from the bond buying program.

YT was also assessed to have had a significant effect on the AUD.

Note that on the day, March 19, when the YT policy was announced the RBA reports that "The Australian dollar stabilised in response, having fallen from around USD0.63 to around USD0.55 over the preceding few days."

In its report on the YT program the Bank appropriately highlights the market volatility at the time the Bank withdrew from the YT program as a cost.

In retrospect the Bank notes in its review that "In September 2020, the yield target could have remained focused on the April 2023 bond, rather than being extended to the April 2024 bond".

Remaining targeted on the April 2023 bond would also have allowed the public guidance to have been limited to 2023 – something which, at the time, would have been considered quite reasonable by most analysts.

It was the extension to the April 2024 bond that exacerbated the volatility in November 2021 and precipitated the condemnation of the YT policy.

Once the policy was targeting the April 2024 bond the potential damage to the program from an inability to defend the target lifted considerably.

Note that the Bank needed to purchase only \$13 billion in April 2023 bonds compared to \$23 billion in April 2024 bonds.

Some market participants believed that the Bank would defend the target until maturity regardless of any developments in

market conditions. But that was always going to be difficult given both the price (set by the RBA) and the volume of the April 2024 bond (set by the AOFM at \$35.9 billion) were fixed.

As soon as economic conditions became inconsistent with the target rate the commitment could not be sustained. It was always going to be much more difficult to defend the April 2024 position than if the policy had been restricted to April 2023.

In retrospect, if the YT policy had been limited to the July 2022 bond (\$25 billion on issue) in March 2020 then the damaging market disruption at the time of withdrawal may have been avoided, while much of the initial boost to demand from this novel policy would still have been delivered.

The market disruption intensified rapidly on October 27 2021, when the September quarter Inflation Report showed that underlying inflation (trimmed mean) printed 0.7% compared to 0.4% average over the previous four quarters. Holding the cash rate at 0.1% until April 2024 seemed a remote possibility and market rates on the April 2024 bond jumped to 0.78%. The Bank withdrew from the market and the policy was officially cancelled at the November 1 Board meeting.

In hindsight, the Bank agrees that "the exit in late 2021 was disorderly and caused some reputational damage to the Bank."

**That disruptive "end game" process has distracted from the case that YT was an effective policy for the extreme times which came at a much lower cost to the balance sheet than bond buying.**

- It was much more effective in lowering borrowing rates and stabilising the currency than would have been achieved by introducing a bond buying program in March 2020.
- It imposed a much lower cost on the Bank's balance sheet than a bond buying program.
- The cost to the balance sheet of YT is of the order of \$1.2 billion compared to a cost of around \$12.8 billion if the bond buying program had been introduced instead of YT in March 2020.
- There is criticism that is linked to the reduction in liquidity in the Australian bond market from the unconventional policies. Market sentiment seems to target YT as the main protagonist. In extending the term of YT to April 2024 in September 2020 the major damage was done. But the liquidity effect is also attributable to the RBA's large holdings of AGS under the bond buying program. If YT had not been introduced and the RBA immediately adopted bond buying in March 2020 the RBA's holdings of AGS would have been up to \$55 billion (\$135 billion minus \$44 billion minus \$36 billion) more than is currently the case – further impacting liquidity.
- The RBA concludes in its review of YT "in the future, bond purchases would be preferred to a bond yield target." But there is an argument, based the RBA's own analysis, that a less ambitious YT policy still has advantages over a bond buying program.

### The Big Picture Issue

Inflation is surging globally, and central banks are facing the need for further significant increases in interest rates. There will be a painful disruption for borrowers, particularly in Australia where 90% of mortgage borrowers are exposed to the RBA's

cash rate over the next 18 months (60% currently floating rate; 75% of the fixed rate borrowers maturing by end 2023).

The combination of high inflation and rising interest rates is undermining consumer and business confidence in most developed economies.

While it was necessary for governments to protect their economies from the unique shocks associated with Covid by providing income support (including Job Keeper in Australia) it is not as clear whether central banks had a role in boosting demand with unconventional monetary policies at a time when supply was the dominant constraint to activity.

Inflation stems from that imbalance between supply and demand.

Boosting demand in the face of constrained supply is the classic scenario for pressuring inflation.

The YT policy, far from being an ineffective tool, was a very cost-effective efficient way to boost demand.

**An imaginative RBA embraced this policy in contrast with other central banks that relied almost exclusively on the blunt instrument of bond buying.**

After resisting bond buying from March to November 2020 the RBA felt it had no choice but to follow other central banks in adopting the bond buying policy mainly to offset perceived upward pressure on the AUD.

For the RBA we have calculated that the cost to the balance sheet in terms of mark to market of the recent bond buying program is currently \$37 billion.

It would have been \$11.6 billion higher if it had adopted bond buying from March 2020 instead of YT.

We need to ask the question of all central banks whether aggressive bond buying (or money printing) was the appropriate policy during Covid given that governments played the necessary role of massive fiscal stimulus incomes and conventional monetary policy was already highly stimulatory.

The explosion in asset prices in response to that “money printing” is one aspect of the Covid period that is now destabilising developed economies and representing a worrying source of instability as central banks wind back conventional stimulus.

Central banks are now tightening conventional policy while remaining unclear in their assessments of their bloated balance sheets on their economies including inflation and asset prices.

Uniquely, the RBA adopted, in the initial stages of Covid, a more effective policy than bond buying, therefore containing to some degree the impact on their balance sheet of costly bond buying programs.

By November 2020 the RBA made the assessment that it could no longer avoid bond buying for fear of boosting the AUD in a world where other central banks were aggressively pursuing that policy. So many factors influence currency markets that it is unclear whether such a policy response was effective or necessary.

The RBA has announced it will release a study of its bond buying program. That will be a valuable insight into the actions of central banks in the developed world.

Perhaps the RBA will be the first central bank to recognise that bond buying was not a necessary policy during Covid. All central banks are now facing the cost of their policies with massive mark to market losses on their balance sheets which are now materialising as negative cash flows and will extend for years to come.

**Bill Evans, Chief Economist**

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