

# Convexity Maven

A Commentary by Harley Bassman

December 15, 2020

## **"A Model Portfolio - 2021"** **(Holiday Stocking Stuffers)**



Come this time every year, I tend to publish a list of “Investments” that I think will do well over the intermediate horizon – two to five years. These are NOT meant to be nips to blips RV trades, but rather longer-term notions that capitalize upon either my strongly held themes or the trembling hands of Sharpe Ratio focused portfolio managers.

Notwithstanding the misery of COVID, it did offer a delicious irony this year as self-quarantine from mid-February to Labor Day turned out to be the optimal investment strategy. The too clever by half active Boomer traders had their pockets picked while the Millennial HODL (Hold On for Dear Life) strategy cleaned the table. Adding insult to injury, my four children now insist I refrain from providing them financial advice.

As detailed in *"The Wages of Fear"* – December 2, 2020, the COVID pandemic prompted the shot-gun marriage of the Federal Reserve’s (FED) Monetary bazookas of a Zero Interest Rate Policy (ZIRP) and Quantitative Easing (QE) to the Federal Government’s ~\$2Tn CAREs Fiscal relief program.

Underpinning the roughly \$2.5Tn of new US Treasury supply this year necessary to fund such spending is the FED's near promise to hold their overnight rate at effectively zero until at least 2023. And this is the fulcrum upon which I balance most of the investment notions to follow.

Financial Repression by the FED has pushed down interest rates across the risk and maturity spectrum. This policy has not reduced Credit risk, rather it has simply stripped away the incremental yield required to offset the inevitable losses from default. Thus, I prefer to take "leverage risk" over "credit risk".

In a nutshell: The FED wants us to borrow, so that is exactly what I will do.

*As a reminder, I am not an investment advisor, nor is this a solicitation. You should not rely upon this Commentary for accuracy and you should seek advice from a professional. Finally, I personally own a variation of these investments.*

### Buy/Sell options SPY – January 2023 expiry

I would not call 3650 on the SPX cheap, nor is it even fair, but it is not rich relative to a ten-year Treasury rate of 0.90%, or a Junk bond rate of 4.90%.

And the truth of the matter is that **-rhodonite line-** US stocks are reasonably priced, once one pulls out the six **-apatite line-** FAAANM stocks. (The **-topaz line-** ex-US stocks will be considered in a later section.)



## The Trade - with SPY = 365.00

Buy call option; Strike = 410 (12.3% out-of-the-money) @ \$19.00 (Vol = 18.5%)

Sell put option; Strike = 275 (24.7% out-of-the-money) @ \$19.00 (Vol = 26.5%)

Expiry = January 20, 2023



Source: The Bloomberg

The US Government is likely to enact a \$916bn Fiscal package (4.3% of GDP) to be funded by debt effectively sold to the FED. For all intents and purposes, this is the (un)official kick-off of Modern Monetary Theory (MMT). If the vaccines lead to herd immunity by mid-summer, consumer spending will explode.

But the more interesting concept here is that one is implicitly borrowing money at 0.20% for two years, the rate embedded into the option pricing model.

This trade is best suited for investors who are already long core US equities who may want to take profits at the current low Capital Gain tax rate and replace a long position with this option package. While one gives up the first 12.3% of an advance, in exchange one is protected against the first 24.7% decline.

The put is struck at 275, just below the -opal line- Fibonacci 50% retracement of the entire five-year bull run; this can be a sticky level of solid support. Using 2018 actual earnings of \$161.93, this strike would mark a P/E of 17, not bad.

For those who speak Greek, this trade has an initial "delta" of 54%, which means that for every point the SPY moves, this package will move 0.54 points. The package starts is slightly long convexity (gamma), and because of the 8%-point differential in Implied Volatility, it earns decay (theta). Just remember, in a hard back up, you must be willing to own the market at the strike price of 275.

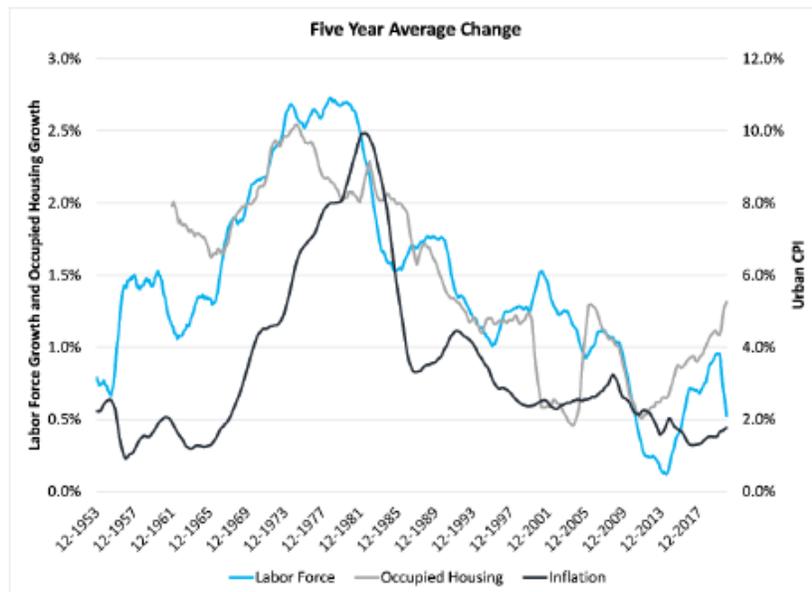
## Re-Finance your Mortgage

The average outstanding loan rate for borrowers with (Fannie Mae conforming) 30-year mortgages is ~3.83%. Presently, the largest mortgage companies offer a new 30-year rate of ~2.50% and a 15-year rate of ~2.00%.

If a \$300,000 mortgage at 3.83% is refinanced to 2.50%, the monthly payments would decline from \$1,403 to \$1,185. Moreover, the interest portion of the loan may be tax deductible up to the first \$750,000 of the unpaid mortgage balance.

The window is not going to close today, but let there be no doubt, inflation is coming in the next few years. As detailed prior, demographics via an increasing Labor Force Growth rate will push up the inflation rate near 2023-25; and Fiscal spending via some form of MMT may well accelerate the process.

Notice the -celestite line- Labor Force was already turning up before COVID, as was the -pyrite line- of Occupied Housing from Millennial household formation. The average Millennial is 32 years old and entering their prime spending years as they have children and outfit their homes. This process is similar to what propelled the 1970s inflation when Boomers formed households.



Source: Logical Capital

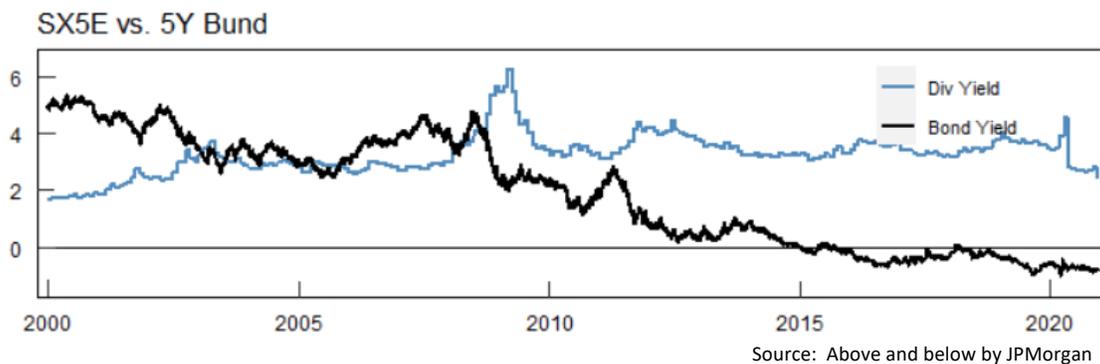
What is important to note is that increases in the Labor Force and Housing presage -obsidian line- inflation by about five years. Demographics combined with Fiscal support will increase aggregate demand and push up prices.

## Long dated (listed) call options on SX5E

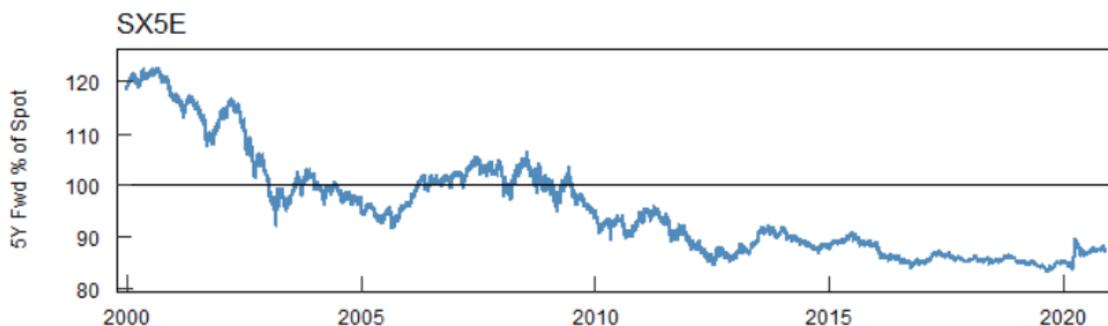
The SX5E is the Dow Jones of Europe, a selection of 50 large stocks. It is presently trading at 3500; this is down 6.5% YTD, and 9.5% beneath its high.

A primary reason is that the annual dividend of about 120 was cut to 83 (-30%). This compares to almost no change in the US (SPX) and a slight increase in Japan (NKY). Reasons for the SX5E cut varies, but they include mandates for banks to conserve capital until after the pandemic is resolved. With a vaccine in sight, distributions could be restored to what would be a 3.40% rate, a huge investment yield versus the negative rates offered for most European bonds.

The [-hematite line-](#) is the continuous dividend yield for the SX5E versus the interest rate for the [-lava line-](#) German Government five-year Bund.



Combining the above, the [-lapis line-](#) is five-year Forward (future) for the SX5E.



Buying the SX5E in the future is mathematically similar to **borrowing money at a compounded negative rate**; in this case -0.54%.

**The Trade:** Buy SX5E call; strike = 3500; expiry = December 2024 @ 325 pts. One is buying an at-the-money strike option for four years at 9.3% of the strike. The breakeven is 3825 (3500+325), below this year's high of 3865. Unlimited gain vs limited loss. This option is listed on EUX exchange in Frankfurt.

## Mortgage Real Estate Investment Trust (mREIT)

A Mortgage REIT is different from the more common Equity REIT. mREITs do not own commercial real estate assets (hotels, shopping centers, apartments), but rather mortgages supported by residential and commercial property.

Since they often own assets at the top of capital structure, they enhance their yield by using leverage (borrowed money), instead of credit risk.

As such, the main risks they face are: 1) The ability and the cost to borrow; and 2) Asset market (interest rate) volatility.

Both of these risks exploded last March as fear of an uncontrollable pandemic caused lenders to reduce their available credit lines and increase the borrowing costs. The coup de gras was vicious volatility that forced margin call liquidations.

Not only was a portion of the Book Value (BV) of these mREITs permanently vaporized, but their market prices declined to a discount of those reduced levels.

No matter your thoughts about the public policy merit of the FED's response to the pandemic, it is clear that: 1) The cost of short-term funding (ZIRP) will be low until at least 2023; and 2) Financial asset volatility will be repressed via QE.

It is generally not my policy to make specific asset recommendations, so the table below offers a diverse portfolio with some of the key indicators.

<u>Security</u>	<u>Price</u>	<u>Book Value</u>	<u>Disc to BV</u>	<u>Distribution</u>	<u>Yield</u>
"A"	\$15.32	\$16.84	-9.03%	\$1.44	9.40%
"B"	\$17.25	\$19.95	-13.53%	\$1.60	9.28%
"C"	\$9.31	\$10.86	-14.27%	\$0.60	6.44%
"D"	\$11.60	\$14.86	-21.94%	\$1.20	10.34%
"E"	\$9.96	\$16.93	-41.17%	\$0.80	8.03%

Comments:

- 1) This portfolio yields about 8.75%, or nearly 400bp above Junk bonds;
- 2) It is possible some of the distributions will increase over time as reduced uncertainty allows for a less conservative pay out;
- 3) These distributions generally qualify for tax-advantaged 199A QBI deductions;
- 4) It is not uncommon for mREITs to have their market price trade at a premium to Book Value. In fact, all of these traded above their year-end BV last February.

## **Municipal Bond Closed-end Funds (CEFs)**

My support for Muni bond CEFs is cut from the same cloth as the preceding discussion for mREITs; and the risks and value propositions are the similar.

Muni CEFs offer a simpler structure than mREITs since they use much less leverage and do not hedge their market risk. Generally, CEFs will buy \$130 of assets for every \$100 of value.

- 1) I buy "quality" since I do not want the credit risk of lesser states or agencies;
- 2) I have no interest, at any price, for Illinois, New Jersey and Connecticut;
- 3) I prefer the larger funds run by brand name managers;
- 4) Most of these funds still trade at a 5% to 8% discount to Net Asset Value;
- 5) **Warning:** The distributions may slowly decline in the next few years as the underlying bonds are "callable" and could be replaced by lower coupon bonds.

Presently, the CA funds yield about 4.25% while NY funds yield 4.50%, both are fully exempt from Federal tax, and their respective State taxes.

## **Gold**

*"Rumpelstiltskin at the Fed"* – April 19, 2016 is still my all-time favorite Commentary. With no math, it is entertaining and informative for both the layman and professional; and its fundamental thesis is still valid.

For the record, I am not a Gold-bug; but buy me a well-mixed Sidecar and I may nod in that direction. In 5000 years of human history there is no record of a kingdom printing the currency of the realm at a faster pace than the growth of the economy without generating inflation.

Contrary to Warren Buffett's 2012 dismissal, Gold is not an asset; rather it is an alternate currency and a long-term store of value.

As per BitCoin, it is a speculative trading vehicle, nothing more, nothing less. [See *"Tulips for the Masses"* – December 5, 2017] BitCoin has a realized volatility near 50%, compare this to traditional "stores of value" such as EUR, JPY and GBP with vols near 7%, or even the Russian Ruble with a vol of 14%.

Gold is not a trade; it is a twenty-year horizon asset diversification to hedge against a blimp-sized black swan landing in your backyard. A 5% allocation is likely dead money for quite a while, but I sleep well at night.

Perhaps it will be different this time, but you know my thoughts on that topic.

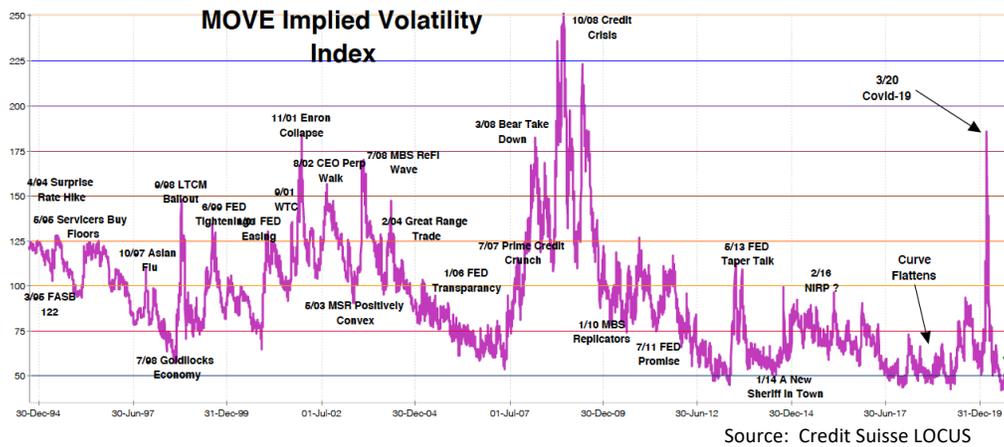
## Long-dated interest rate options

This is the best trade I have right now, period. Unfortunately, it can only be done by professionals with an ISDA agreement until I can figure out a way to offer it to High Net Worth and Family Office managers. [Which is cooking...]

**The Trade:** Buy a seven-year put option on a thirty-year bond.

Actually, that is how this trade performs; in Wall Street terms, it is known as a seven-year expiry swaption on the twenty-year swap rate.

Twenty-year interest rates are near a forever low of about 1.60%. At the same time, interest rate **-jasper line-** Implied Volatility is also near its forever low.



As such, this seven-year option with a strike of 3.50% costs about 2.35%, or \$23,500 per million of insurance. This is roughly 35bp per year (235/7).

The investments offered here rely upon low and stable interest rates; this option is the macro-insurance policy for the entire portfolio. My Muni CEFs yield 4.35%; I clip the 0.35% for this option, and that leaves me with a 4.00% tax free return. My SPX and SX5E investments will do fine, unless interest rates rise significantly.

Millennial spending super-charged by a COVID fiscal package may finally ignite inflation, but it is not clear when. This option allows one to benefit from the MMT boost to markets with an escape parachute for protection.

Harley S. Bassman  
December 15, 2020

Your comments are always welcome at: [harley@bassman.net](mailto:harley@bassman.net)  
If you would like to be added to my distribution, just ping me.

For reference literature on the financial markets - particularly about options and derivatives - I will immodestly direct you to my educational archive at:

<http://www.convexitymaven.com/themavensclassroom.html>

If you still have kids in the house, please take a vacation that is more interesting than the Four Seasons, Costa Rica – life is not a dress rehearsal. Turn off the Crackberry (did I just date myself ?) and explore with the family. You don't need to break the bank, rent an RV and see the U.S. We traveled with our four kids on five incredible RV trips.

<http://bassman.net>

If you are an institutional investor, I can highly recommend:  
Hunter Davis at BNP and Jordan Brink at Morgan Stanley

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