## VALKYRIE

## Weekly Market Review - September 19th, 2022

#### Key Takeaways

- Markets continue waiting for and reacting to various economic data prints
- Probabilities for a  $\geq$ 75bp hike are significant at this week's FOMC meeting
- The 2/10 year treasury yield spread continues to hold near YTD lows

#### **Traditional Market Commentary**

What almost seems like an endless waiting then reacting game for the next economic indicator, investors now wait for the Fed's pending move at FOMC this week. Markets collapsed following the consumer price index year over year release of 8.3% last week, while lower than the previous print of 8.5%, still higher than the consensus forecast of 8.1%. Core CPI, excluding food and energy, rose year over year to 6.3% from 5.9%, higher than consensus at 6.1%.

Probabilities call for a 75 bp rise at this week's meeting, with even more expected hikes as inflation in the US refuses to be tamed. November's FOMC meeting carries expectations of another 75 bp hike. Notable change from last week was the rise of the terminal rate now calling for 4.25-4.5%, higher than the 4% level predicted early last week. Any chance of an ease next year now looks like a fall 2023 event instead of summer. This particular meeting is pivotal as it takes place just before the midterm elections the week after.

Preliminary earnings announced by FedEx Friday also painted a darker macro picture as the company pulled back growth expectations and announced cost-cutting measures resulting in weaker shipment volumes ahead. Pessimism drove equities lower with the S&P 500 last week down almost 5%, and down almost 19% year to date. The Dow Jones Industrial declined 1300 points Tuesday alone, while the Nasdag Composite approached levels not seen since June, as the index is down almost 27% YTD.

Interest rates are providing some type of transparency during these darker times as the changes in the yield curve remain fluid and volatile as ever. The 2-year treasury rose almost 30 bps last week, reaching 3.9% by Friday, the highest point since September 2007. The 10-year treasury remained steady at the 3.45% level after moving higher following the CPI news. This resulted in the 2/10 year spread declining towards the -45 bp level, approaching the YTD low of almost -50 bp reached early August. Weekly yield curve movement showed significant moves of 20-30 bp in the front end of the curve as traders priced in short term rate predictions.

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S&P 500    SPX    3873    -4.77    -8.40    5.40    -18.73    -12.62      Nasdaq 100    NDX    11861    -5.77    -10.43    5.28    -27.32    -22.64      Russell 2000    RUT    1789    -4.50    -8.13    7.95    -19.91    -19.61      ow Jones Ind.    DJI    30822    -4.13    -8.56    3.12    -15.18    -10.88      Commodities    Crude OII    CL1    82.57    -62.0    -8.92    -25.25    9.45    17.27      Brent Crude    BRN00    89.04    -5.54    -7.91    -22.04    14.24    19.95      Natural Gas    NG00    7.46    -10.98    -23.45    6.65    108.16    50.82      Inleaded Gas    R00    2.36    -4.33    -9.12    -8.57    -5.17      Silver    S100    19.31    -2.35    2.28    -10.70    -17.30    -13.22      Corn    C00    672.25    -3.17    7.09    -14.39    13.46				Returns (%)						
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Source: TradingView	Z 2014 20	015 20	16 2017	2018	2019					



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### **News Review**

- White House Releases Comprehensive Framework for Responsible Development of Digital Assets
- ECB Selects External Companies for Joint Prototyping of User Interfaces for a Digital Euro
- Segulation **Regulation**



A Stable Asset to Law Enforcement - Stablecoins Like USDT & USDC are Increasingly Useful for Fighting Crime

Crypto Lender MakerDAO Turns to Staked Ether to Reduce USDC Influence

Crypto Trade Group for Circle, Kraken Seeks Clout With PAC to Spread Cash Haul

Disney CEO Lays Out Early Plan for Digital Future, Avoids Saving "Metavorco" Saying "Metaverse"

NEAR Foundation Launches \$100 Million VC Fund for Lab and web3

Blockchain Tool Developer Infura Plans to Launch **Decentralized Protocol** 

Sould Fund NET Punc Could Fund NFT Buys

 
 Fortnite Developer Epic Games' Marketplace Lists First

 NFT Game Blankor Disclude
NFT Game, Blankos Block Party

BNB Chain to Collab with Google Cloud to Bolster Web3, Blockchain Starture **Blockchain Startups** 

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## Weekly Market Review - September 19th, 2022

#### **Key Takeaways**

- Ethereum's protocol change occurred last week with no malfunctions
- A fee burning mechanism may push the ETH supply into deflationary territory
- Ethereum's Proof-of-Stake validators and rewards are also locked in the protocol

#### **On-Chain Commentary**

By all accounts, Ethereum's consensus mechanism shift from Proof-of-Work to Proofof-Stake occurred with no notable issues. Block times have normalized, with chain validation and transactional activity all migrating seamlessly. In regards to price action, most digital assets continue to experience significant correlations with traditional finance and associated macro headwinds.

With the Merge now in the rear view, Ethereum investors are now focused on whether or not issuance flips to a deflationary environment. Just over a year ago, Ethereum implemented EIP-1559, which simplified Ethereum's transaction fee market and added a fee burning mechanism. As on-chain activity increases, the network will experience greater and greater deflationary pressures. Currently though, overall onchain activity has declined significantly over the past few months.

Chain validators will also act as an additional supply soaking mechanism. Entities or users with 32 Ethereum can participate as a validator to confirm transactions. Individuals with less than 32 Ethereum can also pool resources through a staking service to participate as a validator. Any related staked ETH and associated staking rewards will remain locked in the protocol until the the next major protocol update is written and implemented, which carries an estimated development time of 6 to 12 months.

#### **Bitcoin Fear and Greed Index**

Multifactorial Market Sentiment Analysis





			Returns (%)					Annualized				
Crypto	Ticker	Price (\$)	1 week	1 month	3 month	YTD	1 year	M Cap (bn)	Issuance (%)	Stake Yield (%)	Volatility	Sharpe
Bitcoin	BTC	19008.31	-0.85	-3.96	-6.30	-58.34	-59.26	368.80	1.77	N/A	0.68	-1.12
🔶 Ethereum	ETH	1333.94	1.78	-12.59	20.53	-63.05	-59.19	166.31	0.11	5.13	0.88	-0.70
🞯 Binance Co	n BNB	265.10	1.01	-3.69	24.48	-47.45	-34.16	43.40	0.00	4.55	0.77	-0.27
<b>Solana</b>	SOL	31.66	3.49	2.26	-8.56	-81.06	-78.94	11.40	4.58	5.88	1.10	-1.01
Polkadot	DOT	6.36	-0.56	-8.85	-18.48	-75.95	-81.05	7.17	7.30	13.93	1.06	-1.08
🛇 Polygon	MATIC	0.76	2.26	-7.45	92.50	-69.53	-41.45	6.73	5.64	13.61	1.24	0.09
🕅 Tron	TRX	0.06	-1.45	-5.55	-1.92	-20.38	-41.99	5.54	1.25	3.55	0.77	-0.34
Avalanche	AVAX	16.96	3.23	-9.92	1.04	-84.24	-75.40	5.10	4.93	8.55	1.22	-0.53
Cosmos	ATOM	15.54	8.52	34.77	134.16	-50.87	-64.06	4.56	12.78	17.87	1.27	-0.13
Near	NEAR	3.98	3.68	-7.23	19.10	-72.45	-60.36	3.19	4.76	10.61	1.43	0.11
Algorand	ALGO	0.31	8.39	9.99	-0.09	-80.86	-83.91	2.20	3.39	7.45	1.00	-1.39
🔞 Fantom	FTM	0.23	2.68	-15.85	-8.55	-89.78	-84.23	0.59	3.79	14.18	1.51	-0.39
🧭 Helium	HNT	4.44	15.69	-10.95	-56.71	-87.80	-76.72	0.58	Variable	6.16	1.39	-0.42
👌 Zilliqa	ZIL	0.03	2.21	-10.91	-6.39	-56.60	-68.48	0.43	5.06	12.17	1.70	-0.10

#### **Bitcoin 30-Day Rolling Volatility**



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#### **Bitcoin Moving Averages**

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#### **Key Takeaways**

- The DeFi ecosystem experienced no issues after Ethereum's protocol change last week
- Decentralized applications have continued to seek out the most advantageous scaling solutions
- The popular on-chain derivatives exchange dYdX is in the process of migrating to a new L1

#### **Decentralized Finance (DeFi) Commentary**

As of this writing, major DeFi applications including but not limited to money markets and decentralized exchanges continue to operate as planned without any major glitches after Ethereum's Merge, or the transition from Proof-of-Work to Proof-of-Stake. Data oracles and token bridges also appear to be running smoothly.

Nevertheless, out of necessity, projects previously associated solely in the Ethereum ecosystem have shifted focus to Ethereum alternatives or a multi-chain mindset. Earlier this year, the dYdX protocol, the largest on-chain perpetual futures exchange, announced a migration from an Ethereum Layer 2 to a Cosmos blockchain. Cosmos is a technology and ecosystem that allows projects to create a standalone blockchain with strong cross-chain capabilities.

According to the dYdX team, moving to a Cosmos blockchain will allow them to build the best fully decentralized protocol. Thus far, every L1 or L2 solution they have evaluated could not handle the throughput needed in order to properly run the orderbook and matching engine of the exchange on-chain. A purpose-built blockchain, dedicated to the newest version of the dYdX protocol, will theoretically allow for enhanced customizability and increased on-chain orderbook throughput. The team looks to be on track for a Q2 2023 mainnet launch.



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## VALKYRIE

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#### **Stablecoin Origins & Purpose**

Stablecoins are a sector of cryptocurrencies which attempt to peg value to \$1, typically using an external reference, such as USD or EUR. The main types of stablecoins include; fiat-backed, \$200b crypto-backed, algorithmic, or hybrid collateralization.

Tether (USDT) was initially created in 2014 to act as a potential hedge against market volatility, as well as increasing the transferability and convertibility of fiat currencies to cryptocurrencies. Tether's usage and supply grew substantially throughout the 2017 Bitcoin bull run, which significantly increased adoption of USDT trading pairs on crypto exchanges. As scrutiny increased over Tether's reserves, competing projects like Circle's USD Coin (USDC) arose with a focus on increased transparency. Today, most fiat-backed stablecoins, including Tether, release monthly reserve attestations.

#### Fiat-Backed

The two largest stablecoins by circulating supply, USDT and USDC, are both backed by USD reserves and/or USD equivalents held in third-party financial institutions. Issuing these types of stablecoins directly from the servicer also requires KYC/AML compliance and minimum capital requirements.

#### Crypto-Backed

Crypto-collateralized stablecoins require on-chain management with the use of smart contracts, which also allows for 100% transparency of reserves and collateralization levels. Most cryptobacked stablecoins do not have KYC/AML or minimum capital requirements for initialization but do require overcollaterization of loans to buffer against market volatility. If these loans fall below the required collaterization level, they are liquidated.

#### <u>Algorithmic</u>

Of all stablecoin types, algorithmic or seigniorage-style stablecoins have had the most difficulty maintaining a \$1 peg, historically. This stablecoin type does not require collateral and are managed on-chain via smart contracts. Algorithmic stablecoins *will* increase or decrease the circulating supply to maintain stablecoin value.

#### **Tether Redemptions & Reserves**

Tether has now experienced about \$19 billion in redemptions, approximately 20% from the peak, since the Terra and UST algorithmic stablecoin implosion in mid-May. Earlier this year, Tether saw increasing scrutiny regarding the components of it's reserve holdings, including a nearly 25% slice of commercial paper. Going forward, Tether will be replacing the MHA Cayman accounting firm with BDO Italia and will publish monthly attestations of stablecoin reserves. According to the latest attestation of reserves, commercial paper holdings have declined to 12% of the total reserves. Tether has said they plan to reduce these holdings to zero by the end of -4,000m the year, as well as plans for a full audit through BDO Italia.

#### Stablecoin Circulating Supply





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	Fiat-Backed	Ticker	Supply (\$, bn)	Launch	Chain
(	Tether	USDT	67.96	Sept '14	Multi
(	S Circle	USDC	49.37	Sept '18	Multi
	Binance	BUSD	20.68	Sept '19	Multi
	TrueUSD	TUSD	1.08	Jan '18	Multi
(	<b>P</b> axos	USDP	0.96	Sept '18	ETH, BSC
	Gemini	GUSD	0.31	Sept '18	ETH
(	Huobi	HUSD	0.16	Nov '18	ETH, SOL
ma	Crypto-Backed	_			
22	B MakerDAO	DAI	6.39	Dec '17	Multi
	🚹 Abracadabra	MIM	1.81	May '21	Multi
(	S Liquity	LUSD	0.17	Apr '21	ETH
(	Synthetix	sUSD	0.14	Dec '18	ETH, FTM
(	s mStable	mUSD	0.05	May '20	ETH
	Algorithmic				
	Frax	FRAX	1.36	Dec '20	Multi
	Neutrino	USDN	0.62	Oct '19	Multi
	Fei USD	FEI	0.09	Dec '20	ETH
sen					

## VALKYRIE

### Weekly Market Review - September 19th, 2022

On-Chain Commentary, Decentralized Finance (DeFi) Commentary, Traditional Market Commentary: Source: Valkyrie Investments, Inc.

Coin Prices, Market Capitalizations, and Returns: Source: Valkyrie Investments, Inc., TradingView, Messari. All returns represent total return for stated period. Coin Logos: Source: cryptologos.cc

Annualized Issuance, Staking Yield, Volatility, and Sharpe Ratio: Source: Valkyrie Investments, Inc., Messari, StakingRewards.com. ETH staking rewards values are representative of the network post-Proof-of-Stake transition.

Bitcoin Fear and Greed Index Source: Valkyrie Investments, Inc., alternative.me and represents a multifactorial sentiment analysis index of volatility, market momentum and volume, social media, bitcoin market cap dominance, and Google trends

Bitcoin Monthly Average Hashrate, Bitcoin 30-Day Rolling Volatility: Source: Valkyrie Investments, Inc., CoinMetrics

Bitcoin Weekly Moving Averages: Source: Valkyrie Investments, Inc., TradingView - INDEX:BTCUSD

Stablecoin Origins & Purpose, Fiat-Backed, Crypto-Backed, Algorithmic, Tether Redemptions & Reserves: Valkyrie Investments, Inc., Tether Operations, CoinMetrics, Circle, and Paxos

Stablecoin Circulating Supply: Source: Valkyrie Investments, DeFi Llama - list and examples shown are non-exhaustive, intended for illustrative purposes only.

Stablecoin Net Exchange Flow: Source: Valkyrie Investments, Inc., Nansen and represent wallet inflows and outflows of Tether, USD Coin, Binance USD, PAX, and Huobi USD through crypto exchanges, including but not limited to; Binance, Curve.fi, AnySwap, Crypto.com, Uniswap, Hop Protocol, OKEx, Kucoin, dYdX, Coinbase, Kraken, Huobi, FTX, Gemini, FTX US, CoinList, SushiSwap, Gate.io, Balancer, BitMEX, Bitfinex, Bittrex, Binance US, Bitstamp, BlockFi, Paxos, Celsius, Alameda OTC, Poloniex, HitBTC, Bancor, Kyber, and ShibaSwap.

List and examples shown in the Stablecoin table are non-exhaustive, intended for illustrative purposes only. Chain data sourced from CoinMarketCap. "Multi" description can include Ethereum, Solana, Binance Smart Chain, Algorand, Tron, Fantom, Polygon, Avalanche, Arbitrum, Secret, Terra, Moonriver, Velas, and Harmony. Coin Logos: Source: cryptologos.cc

DeFi Total Value Locked, Top 10 Chains, DeFi Total Value Locked: Source: Valkyrie Investments, DeFi Llama - list and examples shown are non-exhaustive, intended for illustrative purposes only.

Top Protocol Revenue, Past Week, Lowest Price to Earnings Ratio, Past Week: Source: Valkyrie Investments, Token Terminal - list and examples shown are non-exhaustive, intended for illustrative purposes only.

Decentralized Exchange (DEX) Volume: Source: Valkyrie Investments, Dune Analytics - Defined as total reported volume for the specified DEX in the specified time period. "Other" category includes the following DEXs: airswap, Bancor Network, clipper, DDEX, DefiPlaza, DFX Finance, DODO, dYdX, Gnosis Protocol, IDEX, Indexed Finance, Kyber, LINKSWAP, Loopring, mStable, Oasis, PowerIndex, Shell, xSigma

"Indicies" prices and returns: Source: Valkyrie Investments, Inc., MarketWatch. "S&P 500" provided by Standard & Poor's and is a stock market index tracking the performance of 500 large companies listed on stock exchanges in the United States, "Nasdag 100" provided by NASDAQ OMX Group and includes 100 of the largest domestic and international non-financial companies listed on the Nasdag Stock Market based on market capitalization. "Russell 2000" provided by FTSE Russell and is a small-cap stock market index that makes up the smallest 2,000 stocks in the Russell 3000 Index. "Dow Jones Ind." provided by S&P Dow Jones Indices and is a price-weighted measurement stock market index of 30 prominent companies listed on stock exchanges in the United States. "Gold" provided by NYMEX - CME Group and is a continuous futures product. All returns represent total return for stated period.

"Commodities" prices and returns: Source: Valkyrie Investments, Inc., Wall Street Journal. Bloomberg Commodity Index provided by Bloomberg and tracks prices of futures contracts on physical commodities on the commodity markets. All returns represent total return for stated period.

Past performance is not indicative of future results. Investments may be speculative, illiquid and there is a risk of total loss. There is no guarantee that any specific outcome will be achieved. There is no guarantee that any specific outcome will be achieved. This is not an offer to buy or sell securities. We do not offer legal, tax or financial advice. Information is purported to be as of the time period provided therein. Charts/graphs are for illustrative purposes only.

Cautionary Statement Concerning Forward-Looking Statements: This document contains forward-looking statements. In addition, from time to time, we or our representatives may make forward-looking statements orally or in writing. We base these forward-looking statements on our expectations and projections about future events, which we derive from the information currently available to us. Such forward-looking statements relate to future events or our future performance, including: our financial performance and projections; our growth in revenue and earnings; and our business prospects and opportunities. You can identify forward-looking statements by those that are not historical in nature, particularly those that use terminology such as "may," "should," "expects," "anticipates," "contemplates," "estimates," "believes," "plans," "projected," "predicts," "potential," or "hopes" or the negative of these or similar terms. In evaluating these forward-looking statements, you should consider various factors, including: our ability to change the direction of the Company; our ability to keep pace with new technology and changing market needs; and the competitive environment of our business. These and other factors may cause our actual results to differ materially from any forward-looking statement. Forward-looking statements are only predictions. The forward-looking events discussed in this document and other statements made from time to time by us or our representatives, may not occur, and actual events and results may differ materially and are subject to risks, uncertainties and assumptions about us. We are not obligated to publicly update or revise any forward-looking statement, whether as a result of uncertainties and assumptions, the forward-looking events discussed in this document and other statements made from time to time by us or our representatives might not occur.