

BEE FANTOM FARMS

DeFi Tomb Fork



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- Telegram: <http://t.me/beefantom>
- Twitter: <https://twitter.com/beefantom>

BEE FANTOM FORK INTRODUCTION



Welcome to Bee Money!

Please take some time to read through this documentation before you begin using the protocol. This documentation is intended to take you through the entire process of how to get started using Bee Money to earn stable, high yields that are only possible through the power of DeFi, but with the stability and security of exposure to Fantom.

The point

The Bee Money protocol is to provide the means for its underlying BEE asset to maintain a value that is algorithmically pegged to the value to Fantom (FTM) at a 1 to 1 ratio.

This opens up a world of possibilities for existing, long-time Fantom holders, people already familiar with DeFi, as well as new users just coming into the space.

BEE is the native token of the Bee Money protocol. The built-in stability mechanisms within the protocol aim to maintain BEE's peg of 1 BEE = 1 Fantom (FTM) in the long run.

What are the Bee Money protocol tokens?

Bee Money's multi-token protocol currently consists of the following tokens, and each plays a critical role in how the protocol works to maintain peg:

1. *BEE Tokens (\$BEE)*

The BEE token is designed for use as a medium of exchange, and is intended to have many other use cases as the Bee Money ecosystem grows. BEE is algorithmically pegged to Fantom (FTM) at a ratio of 1 BEE to 1 FTM.

2. *BEE Shares (\$SWARM)*

SWARM can be staked in the to earn a portion of minted BEE as rewards to those SWARM holders for investing in the health and stability of the protocol.

3. *BEE Bonds (\$HONEY)*

HONEY's main job is to help incentivize and reward users for helping to regain peg during times of supply contraction below peg.

How does it work?

The Bee Money protocol works through a synergistic design of unique tokens and mechanisms that create an automatic, self-reinforcing system to help maintain the peg (1 BEE = 1 Fantom).

- When BEE price is over the peg, new BEE are minted by the protocol to inflate the supply in an attempt to drive the price down towards the peg. These new BEE are allocated to SWARM holders in the Boardroom, as a reward for their investment and trust in the protocol. This in turn increases the demand for and the value of SWARM.

- When BEE price is at the peg, no new BEE will be minted, keeping the supply fixed during this time. Since there will be no new supply coming in, the peg will be maintained indefinitely at this point unless there is a shift in demand. More buying pressure during this time will push the price back up above the BEE minting threshold. Conversely, more selling pressure will push the price below the peg.

- When BEE price drops below the peg, the protocol will begin to mint HONEYs (up to a maximum debt limit). Experienced investors will have the ability to exchange their BEE for these HONEY, which they can then redeem for BEE at a premium above peg in the future. This removes BEE from the total supply, applying upward pressure on the price towards the peg. Besides this, investors who believe in the protocol's ability to maintain peg can just buy BEE to essentially purchase Fantom at a discount to the market. Both of these incentives are intended to create upward pressure on BEE's price when under the peg so that the peg can be regained over time.

There are so many different ways you can utilize the mechanisms of the Bee Money protocol to earn yield. Pick a strategy that is right for you, based upon your own knowledge and experience. Even the most simple and basic of strategies can earn great returns, but feel free to experiment with more complex strategies as you learn how the protocol works!

BEE FANTOM FORK HOW TO BUY



You can buy BEE or SWARM on SpookySwap.

Buy BEE

Paired with wFTM: [https://spookyswap.finance/swap?
outputCurrency=0x16950f0a9d20380087bB6f65CC487B5d0f632bFe](https://spookyswap.finance/swap?outputCurrency=0x16950f0a9d20380087bB6f65CC487B5d0f632bFe)

Buy SWARM

Paired with wFTM: [https://spookyswap.finance/swap?
outputCurrency=0x3E4E33e1eb163970F93882960cb4e7778a03f6B1](https://spookyswap.finance/swap?outputCurrency=0x3E4E33e1eb163970F93882960cb4e7778a03f6B1)

BEE FANTOM FORK TOKENS



BEE

Contract: 0x16950f0a9d20380087bB6f65CC487B5d0f632bFe

The BEE token is designed to be used as a medium of exchange. The built-in stability mechanisms within the protocol aim to maintain BEE's peg of 1 BEE = 1 Fantom (FTM) in the long run.

Note that BEE actively pegs via an algorithm, but that does not mean it will be valued at 1 BEE to 1 FTM at all times as it is not collateralized. BEE is not to be confused for a crypto or fiat-backed stablecoin.

SWARM - BEE Shares

Contract: 0x3E4E33e1eb163970F93882960cb4e7778a03f6B1

BEE Shares (SWARM) are one of the ways to measure the value of the Bee Money Protocol and shareholder trust in its ability to consistently maintain BEE close to peg. During epoch expansions the protocol mints BEE and distributes it proportionally to all SWARM holders who have staked their tokens in the [Boardroom](boardroom.md).

SWARM has a maximum total supply of 70,001 tokens distributed as follows:

1. Team Allocation: 7,000 SWARM vested linearly over 12 months
2. Rewards: 6300 SWARM are allocated for incentivizing liquidity providers in two farming pools for 12 months
3. Initial mint: 1 SWARM minted upon contract creation for the initial pool

The Bee Money team will use the treasury funds in any way that they feel is best for the long-term success of the protocol.

HONEY - BEE Bonds

Contract: 0xF920ACbaEC80aAbeefA40fD7770135FE649Da300

The main purpose of BEE Bonds (HONEY) is to help incentivize fluctuations in the BEE supply during epoch contraction periods. When the TWAP (time-weighted average price) of BEE falls below 1 to 1 FTM, HONEYs are issued and can be bought with BEE at the current price. Exchanging BEE for HONEY burns BEE tokens, taking them out of circulation (deflation) and helps to get the price back up to peg. These HONEY can be redeemed for BEE when the price is above peg in the future, plus a premium based on how high above peg we currently are. This conversely creates inflation and subsequent sell pressure for BEE when it is above peg, helping to push it back toward 1 BEE to 1 FTM ratio.

Unlike early algorithmic protocols, HONEYs do not have expiration dates.

All HONEY holders will be able to redeem their HONEY for BEE tokens as long as the treasury has a positive BEE balance, which typically happens when the protocol is in epoch expansion periods.

BEE FANTOM FORK BOARDROOM



Take a look at each element of the Boardroom user interface.

1. NEXT EPOCH

The amount of time remaining until the next epoch.

2. CURRENT EPOCH

The number of the current epoch.

3. BEE PEG (TWAP)

The TWAP (time-weighted average price) of the BEE peg. The Boardroom only mints new BEE as rewards for SWARM stakers when this value is above 1.01 at the end of the current epoch.

4. APR

The yield for SWARM stakers in the Boardroom if the Boardroom was printing every epoch. This calculation is based on the last recorded print in the Boardroom.

5. SWARMS STAKED

The total amount of SWARM currently staked in the Boardroom.

6. BEE Earned

The amount of BEE you've earned as rewards for staking SWARM in the Boardroom.

7. SWARM Staked

The amount of SWARM you currently have staked in the Boardroom.

Boardroom Specifications

- Epoch duration: 6 hours
- Any interaction with the Boardroom (staking/unstaking SWARM or withdrawing BEE rewards) will lock your staked SWARM for 6 epochs and BEE rewards for 3 epochs.
- Distribution of BEE during expansion (Boardroom printing):

90% goes to Boardroom SWARM stakers as rewards
10% goes to dev fund

- Epoch Expansion: The current expansion cap is based on the currently circulating BEE supply. If there are bonds to be redeemed, 65% of minted BEE goes to the treasury until its sufficiently stocked to satisfy future bond redemption.

Note that the Boardroom does not print any rewards for SWARM stakers when

the Boardroom TWAP < 1.01.

Boardroom FAQ

1. Once HONEYs are issued, does the Boardroom stop printing BEE until we are above peg again?

Staking SWARM will only give you BEE rewards when the price of BEE is above the peg (1 BEE to 1 FTM), but not when it is under the peg.

2. What happens if I interact with the Boardroom in any way? Are there any lockup periods?

Yes, there are two lockup timers. One for BEE rewards and one for staked SWARM. Any interaction with the Boardroom will reset both timers. The lockup period for withdrawing BEE rewards is 3 epochs (18 hours), or 6 epochs (36 hours) to unstake your SWARM.

3. Are the Boardroom rewards pro-rated by time? For example, if I stake three hours before the end of an epoch versus five hours before the end of an epoch, would I get different rewards?

No, Boardroom rewards are determined by how much you have staked at the time of printing (i.e., at the end of one epoch and the start of the other). It doesn't matter if you stake three hours before or thirty seconds before the emissions occur.

4. If I remove my SWARM from the Boardroom without first collecting my BEE, will they be lost forever?

No, they will still be there to collect whenever you need.

5. The Boardroom APR dropped because we're in a "debt phase." What does that mean?

A debt phase takes place during expansion epochs that start after a contraction period where there are still HONEY to be redeemed.

65% of expansion during a debt phase is allocated to the treasury fund to prepare for subsequent HONEY redemption down the road. This amount is always reserved, regardless of whether HONEY holders are redeeming bonds or not.

Once enough BEE is sufficiently stocked in the treasury to satisfy the redemption of all circulating HONEY, expansion rates will resume to normal.

6. If we're in a debt phase, how long will it last until the Boardroom continues printing as normal?

The debt phase will last as long as is necessary to adequately pay back outstanding HONEY debt. Please keep in mind that the DAO will also need to collect a little extra, as there needs to be a cushion to cover the bonus premiums when people redeem HONEY over peg

There's no exact way of calculating how many epochs it will take, since the protocol doesn't know exactly when people will redeem their HONEY. The debt phase cannot end until the treasury has enough BEE to cover the redemption of all outstanding HONEYs plus a premium.

7. At the end of the epoch, the Boardroom did not print BEE, but then no HONEY(s) were issued either. Why?

There is a balanced state "at peg" when BEE's TWAP is between 1.00 and 1.01, which results in no contraction or expansion of the circulating supply of BEE. This is referred to as a zen epoch.

8. If BEE continues to climb above the price of the peg, will that influence how long the debt phase lasts?

Depending on the price of BEE, the Boardroom print will have to adjust to provide a buffer for any unclaimed HONEY. As the price of BEE climbs above the peg, more BEE needs to be distributed to the treasury to account for HONEY redemption plus premiums.

BEE FANTOM FORK BEE DISTRIBUTION



At the beginning of every epoch, if the time-weighted average price (TWAP) of BEE is greater than 1.01, new BEE will be minted in the Boardroom.

The amount of new BEE distributed depends on our position above peg and also the current circulating supply of BEE.

Circulating Supply	Max BEE Minted
500k or less	4.5% expansion
Up to 1M	4% expansion
Up to 1.5M	3.5% expansion
Up to 2M	3% expansion
Up to 5M	2.5% expansion
Up to 10M	2% expansion
Up to 20M	1.5% expansion
Up to 50M	1.25% expansion
50M+	1% expansion

BEE FANTOM FORK BONDS (HONEY)



What are HONEY (Bonds)?

Bonds are unique tokens that can be utilized to help stabilize BEE price around peg (1 BEE = 1 FTM) by reducing the circulating supply of BEE if the TWAP (time-weighted average price) goes below peg.

When can I buy HONEY (Bonds)?

HONEY can be purchased only during periods of supply contraction and when the TWAP of BEE is below 1.

At the beginning of every new epoch during contraction periods, HONEYs are issued in the amount of 3% of BEE's circulating supply, with a max debt amount of 35%. This means that if bonds reach 35% of the circulating supply of BEE, no more bonds will be issued.

Note that during a zen epoch (when an epoch ends with a TWAP between 1.0 - 1.01), no HONEY will be issued, even though the Boardroom does not print.

HONEY TWAP (time-weighted average price) is based on the BEE TWAP from the previous epoch as it ends. In other words, the BEE TWAP is real-time but the HONEY TWAP is not.

Where can I buy HONEY (Bonds)?

You can buy HONEYs if any are available through <https://app.beefantom.farm/bond>. Anyone can buy as many HONEYs as they want as long as they have enough BEE to pay for them.

There is a limit of available HONEYs per epoch during contraction periods (3% of BEE's current circulating supply), and are sold first-come-first-serve.

Why should I buy HONEY (Bonds)?

The first and most important reason to buy HONEY is that they help to maintain the peg, but they are not the only measure in place to keep the protocol on track.

HONEYs don't have an expiration date, so you can view them as an investment

in the long-term health of the protocol to be redeemed for a premium at a later date.

Incentives for Holding HONEY

The idea is to reward HONEY buyers for helping the protocol, while also protecting the protocol from being manipulated by big players.

So after you buy HONEY using BEE, you have two possible ways to get your BEE back:

1. Sell back your HONEY for BEE while the peg is between 1 - 1.1 (1 BEE = 1 FTM) with no redemption bonus. This is in place to prevent an instant dump as soon as peg is recovered.
2. Sell back your HONEY for BEE while the peg is above 1.1 (1 BEE = 1 FTM) with a bonus redemption rate.

The longer you hold, the more both the protocol and you benefit from HONEY.

What is the formula to calculate the redemption bonus for HONEY?

To encourage the redemption of HONEY for BEE when BEE's TWAP > 1.1 and in order to incentivize users to redeem bonds at a higher price, HONEY redemption is designed to be more profitable with a higher BEE TWAP value. The HONEY to BEE ratio is 1:R, where R can be calculated using the formula as shown below:

$$R = 1 + [(BEE_{twap} / price) - 1] * coeff$$

$$coeff = 0.7$$

When can I swap HONEY for a premium?

You can only redeem HONEYs for a premium when the previous epoch's TWAP is greater than 1.1.

BEE FANTOM FORK FARMS



GENESIS POOLS

25,000 BEE in rewards. The Genesis Pool will last 48h.

Allocations:

- wFTM: 5000
- USDC: 4000
- BEE-wFTM: 11000

Genesis pool contract: 0x79ef13d8a5b4065f3c7717ccbfc9ccab46053927

FARMS AFTER THE GENESIS POOLS

To incentivize healthy liquidity pools for the Bee Money protocol tokens, our LP farms have been seeded with SWARM to be distributed as rewards to LP stakers across a time period of 12 months. The total SWARM rewards are distributed from each farm as follows:

- BEE-WFTM LP: 31,500 SWARM (50%)
- SWARM-WFTM LP: 31,500 SWARM (50%)

1. What will happen when the circulating supply equals the total supply? Will reward emissions stop?

Yes. Once the max supply of SWARM (63K) is reached, reward emissions end. This will happen in exactly one year from when the SWARM farms started. SWARM will always continue to print BEE in the Boardroom, though, as long as BEE remains above peg.

2. Why is "at-peg" (TWAP between 1.00 and 1.01) the best time to provide liquidity?

When BEE is pegged or close to being pegged at 1 BEE to 1 FTM, it is more akin to having exposure to a single asset (single staking) than to your traditional LP'ing experience, where you would run the risk of impermanent loss if one of the tokens went up in value and the other did not.

3. Wait, you mean that if FTM pumps, BEE pumps with it?

Yes!

Let's look at an example:

If FTM pumps in price, it won't "outrun" BEE, even if nobody is buying BEE at that time.

The farm APRs will vary in terms of USD value, but the emissions won't. This is something that wouldn't be possible with another 1:1 pegged asset like a stablecoin LP position, where the USD value is directly tied to the emissions. If FTM rises in USD value, BEE goes with it. Similarly, if FTM falls in USD value, BEE will be worth less in USD, but it won't affect the peg.

The only thing that can change the price of BEE in terms of its FTM value (and as such, the peg) is buying and selling it.

BEE FANTOM FORK ROADMAP 2022



Updates will be posted here as the Roadmap is updated.
Last updated February 20th 2022.

- Release website (February 2022).
- Redesign of the documentation (February 2022).
- Buy competitions on Twitter (February 2022).
- Release Boarding Room (February 2022).
- Contract renouncement (Before Boarding Room release).
- Establish partner autocompounding vaults (February 2022).
- Marketing campaigns (March 2022).

BEE FANTOM FORK PROVIDE LIQUIDITY



In order to provide liquidity, you'll first have to purchase either BEE or SWARM (have a look at our (How to Buy BEE) section if you need help in doing so), depending on which you want to provide liquidity for.

Head over to the Liquidity tab on the left side of your screen. Connect your wallet (make sure your Wallet is on the Fantom Network). Now you have to choose the tokens you wish to add liquidity with. For the first, select WFTM or USDC. For the second, choose either BEE or SWARM, respectively.

If BEE or SWARM do not show up, please manually copy/paste the address as shown below.

- BEE: 0x16950f0a9d20380087bB6f65CC487B5d0f632bFe

- SWARM: 0x3E4E33e1eb163970F93882960cb4e7778a03f6B1

Click on supply and accept the transaction in your wallet.

Now that you have provided LP, you can head over to <https://beefantom.farm/farm> and farm your LPs.