

# Liquidity Providing

Your complete playbook for understanding, entering, managing, and exiting LP positions with confidence.

This module covers everything from the fundamentals of liquidity pools through to setting ranges, managing impermanent loss, evaluating pools, tracking positions, and executing your first real LP position step by step.

<b>Lesson 1</b>	<b>Introduction to Liquidity Providing</b>
<b>Lesson 2</b>	<b>The Language of LPs — Key Terms</b>
<b>Lesson 3</b>	<b>Correlated vs. Paired with Stables</b>
<b>Lesson 4</b>	<b>Finding &amp; Evaluating Pools</b>
<b>Lesson 5</b>	<b>Setting Your Range</b>
<b>Lesson 6</b>	<b>Impermanent Loss &amp; Other Risks</b>
<b>Lesson 7</b>	<b>Managing Your Position</b>
<b>Lesson 8</b>	<b>Full LP Walkthrough — WETH/USDC on Base</b>
<b>Lesson 9</b>	<b>Tracking Systems &amp; Tools</b>

# Introduction to Liquidity Providing

If there's one skill that sits at the center of everything we do, it's liquidity providing. It's where the majority of DeFi yield is generated, and it's the thing that takes the most questions from members at every level. So we go deep — but we start at the beginning.

## What Is a Liquidity Pool?

A liquidity pool is a smart contract that holds two assets in a paired reserve. Traders use that reserve to swap between the two tokens. Every time a trade runs through the pool, a small fee is collected — paid by the trader. That fee gets distributed to the people who supplied the assets: the liquidity providers. That's you.

- Think of it like owning a piece of a currency exchange booth at an airport. You stocked the booth with two currencies. Every time a traveler makes an exchange, they pay a small fee. You didn't have to do anything — the exchange happened automatically — but because you provided the inventory, you get a cut of every transaction.

## Why Provide Liquidity Instead of Just Holding?

IF YOU JUST HOLD	IF YOU PROVIDE LIQUIDITY
Assets sit idle in your wallet	Assets go to work immediately
Returns depend on price appreciation only	Earn yield on top of whatever the market does
Passive position — no ongoing income	Every trade through the pool pays you a fee
You're a spectator	You become the market maker

## Concentrated Liquidity

Rather than spreading capital across every possible price, you focus it within a specific range where most trading actually happens. The more accurate your range, the more fees you capture per dollar deployed. More powerful — but more active. We go deep on this in Lesson 5.

## The LP Lifecycle

<b>Open</b>	Deposit two assets into a pool at your chosen price range
<b>Earn</b>	Collect fees continuously while price trades within your range
<b>Manage</b>	Monitor the position, adjust range if price moves outside bounds
<b>Close</b>	Withdraw your assets plus accumulated fees

- LPs are not passive income in the set-it-and-forget-it sense. Prices move, ranges go out of bounds, yields fluctuate. The people who do well stay engaged and manage their positions with intention. That's exactly what this module teaches you to do.



# The Language of LPs — Key Terms

Liquidity providing comes with its own vocabulary. If you don't know what these terms mean, evaluating a pool or managing a position becomes harder than it needs to be. This is your LP dictionary.

## APR vs APY

APR is the simple annual rate — what you'd earn in a year without compounding. APY factors in compounding, assuming earnings are reinvested. APY will always be higher than APR for the same position. When comparing pools, always compare the same metric — APR to APR, APY to APY. Mixing them gives you a skewed picture.

## TVL — Total Value Locked

The total capital deposited in a pool. A pool with \$50M TVL has \$50M of assets sitting in it. TVL tells you pool size, but bigger isn't always better. High TVL with low trading volume may generate less yield than a smaller pool with high activity.

## Volume vs Liquidity

Your yield comes from trading fees — and trading fees come from volume, not pool size. A pool with \$5M TVL and \$20M daily volume generates dramatically more fees than a pool with \$50M TVL and \$2M daily volume. Always look at the volume-to-TVL ratio.

## Fee Tiers

Most DEXs offer multiple fee tiers for the same pair: 0.05%, 0.3%, and 1% are most common. Higher fee tiers sound better, but DEXs naturally route volume to the lowest fee pool for stable pairs. Match the fee tier to the asset type — lower for stable pairs, higher for volatile.

## Price Range & Tick Spacing

When you open a concentrated liquidity position, you choose upper and lower price bounds. Tick spacing is the minimum increment for adjusting those bounds — different pools have different tick spacing, which affects how precisely you can define your range.

## In-Range vs Out-of-Range

When the current price is inside your range, your position is active and earning fees. The moment price moves outside your range, fee generation stops completely. Your capital sits idle until price returns or you adjust. Monitoring this is one of your most important ongoing tasks.

## Impermanent Loss

When the price ratio of your two deposited assets changes, you can end up with less value than if you'd simply held them. The bigger the price divergence, the larger the IL. It's called impermanent because the loss disappears if price returns to your entry point. Full dedicated lesson ahead — just know it exists.

## Rebalancing

Adjusting your position when price moves outside your range or your asset ratio has shifted significantly. Some LPs close and reopen around the current price. Others use automated tools. Either way, rebalancing is part of active LP management — it's how you keep capital working instead of sitting idle.

# Correlated vs. Paired with Stables

One of the most important decisions you'll make as an LP is which asset pair to deposit into. It's not just about finding the highest APY — that's how people lose money. The assets you choose directly affect your impermanent loss risk, yield potential, and how actively you'll need to manage the position.

PAIR TYPE	IL RISK	YIELD POTENTIAL	MANAGEMENT LEVEL
Volatile / Stable (e.g. WETH/USDC)	Highest	Highest	Active — requires close monitoring
Correlated Volatile (e.g. ETH/stETH)	Low	Moderate	Lower — assets move together
Non-Correlated Volatile	Medium-High	Medium-High	Active
Stablecoin / Stablecoin (e.g. USDC/USDT)	Lowest	Lower	Minimal — very stable ratio

## Volatile / Stable Pairs

The most common pair type. One volatile asset paired with a stablecoin. Because the price ratio changes constantly as the volatile asset moves, impermanent loss risk is the highest of any pair type — but so is yield potential. These pairs see the most trading volume, which means more fees flowing to LPs. They require more attention and a higher risk tolerance, but when managed well they generate strong, consistent returns.

## Correlated Volatile Pairs

Two volatile assets that tend to move in the same direction at roughly the same rate — for example, two assets that both track ETH, or two tokens within the same ecosystem. Because the assets move in tandem, the price ratio between them stays relatively stable, keeping impermanent loss significantly lower even though both assets carry individual price risk. This gives you the yield benefits of LP with a much softer IL profile.

## Non-Correlated Volatile Pairs

Two volatile assets that move independently of each other. When they diverge significantly, the ratio shifts and IL risk increases. These sit between correlated pairs and volatile/stable pairs in terms of both risk and yield. If you're going to LP two volatile assets, pay close attention to how correlated they actually are — it changes the risk profile significantly.

## Stablecoin / Stablecoin Pairs

Both assets pegged to the same value. Because the price ratio barely moves, IL risk is as low as it gets in LP. Yields are more modest because the trading range is tight and volume is lower relative to other pair types. Think of it as the conservative end of the LP spectrum: lower risk, lower reward — but your capital is working instead of sitting idle.

■ Start your pair selection by asking: would I be comfortable holding both of these assets individually? If the answer is no, don't enter the pool. The yield doesn't matter if you don't believe in what you're holding.

# Finding & Evaluating Pools

The most important element of any liquidity pool is the underlying assets. Before you even look at APR, volume, or TVL — ask yourself: would I be comfortable holding both of these assets individually? If the answer is no, don't enter the pool. Always start with the assets. Find pairs you'd be happy to hold, then evaluate the pool on top of that.

## Where to Find Pools

TOOL	USE IT FOR
DeFiBuddy.io	Research and shortlisting — surfaces volume, fees, TVL, historical APR in one place
DEX Pool Explorer	Cross-reference before deploying — confirm fee tier, check price range activity

## Key Metrics to Evaluate

### APR / APY

The headline yield number. Never the only thing you look at. A high APR with no context is meaningless. Projected APR depends entirely on the range you set — always track your actual APR.

### Volume

What generates your fees. Look at both 24-hour and 7-day to gauge consistency. High volume relative to TVL is what you want.

### TVL

Useful for context but not a signal on its own. High TVL with low volume means your share of fees is being diluted by idle capital.

### Fee Tier

Match this to the pair type. Lower tiers for stable pairs. Higher for volatile pairs where traders expect to pay more.

### Pool Age

A brand-new pool with eye-catching APR has no track record. An established pool with consistent historical yield is a completely different conversation.

## Why High APR Alone Is Never Enough

You need to understand what's driving the APR. Is it real trading fees from genuine volume? That's sustainable. Is it inflated by short-term token incentives about to expire? That yield could disappear fast. Is it a new pool with one

week of history? Not enough data to trust.

- The question to always ask: where is this yield actually coming from, and is that source likely to still be there in 30, 60, 90 days?

## Consistency vs. Spike-and-Crash APR

What you're looking for in historical APR is consistency — yield that holds relatively steady across different market conditions. Avoid spike-and-crash patterns where APR shoots briefly then collapses. That pattern usually means short-term incentives, not real ongoing trading activity.

- A pool generating 25% APY consistently over 6 months is far more valuable than one that spiked to 100% for two weeks and now sits at 6%.

## Red Flags to Watch For

- Very new pool with no track record
- APR dramatically higher than comparable pools with no clear reason why
- Low volume relative to TVL — lots of capital, not much trading
- Token rewards making up the majority of yield rather than actual trading fees
- Thin liquidity that could make it difficult to exit your position cleanly

## Your Shortlist Process Before Deploying

### STEP 1 — OPEN DEFIBUDDY

Filter for pools that match your pair type preference and chain.

### STEP 2 — SORT BY VOLUME-TO-TVL RATIO

Not just raw APR.

### STEP 3 — CHECK HISTORICAL APR CHART

Is it consistent? Or a recent spike with no track record?

### STEP 4 — CROSS-REFERENCE ON DEX

Confirm the fee tier, check current price range activity.

### STEP 5 — BUILD A SHORTLIST

Two to three candidates. Compare side by side before deciding.

### STEP 6 — START SMALL

Open a smaller position in any pool you haven't used before. Get familiar before deploying full capital.

# Setting Your Range

Your price range is the single biggest lever you control as a liquidity provider. Get it right and your capital works hard, capturing fees on every trade. Get it wrong and your position goes out-of-range, your capital sits idle, and you're earning nothing while the market moves.

## What a Price Range Actually Does

When you open a concentrated liquidity position, you tell the protocol: "I want my capital active between this lower price and this upper price." While price trades inside that range, you earn fees. The moment it moves outside — above your upper bound or below your lower bound — fee generation stops completely.

- When out-of-range: you haven't lost your assets or your accumulated fees. But you've stopped earning — and your position has fully converted into the underperforming asset in the pair. More on that in the Impermanent Loss lesson.

## Narrow vs. Wide Ranges

RANGE TYPE	YIELD PER DOLLAR	HOW LONG IT STAYS ACTIVE	BEST FOR
Narrow	Higher — more concentrated capital	Shorter — goes out-of-range faster	Active managers, stable/correlated pairs
Wide	Lower — capital spread further	Longer — more forgiving	Hands-off approach, volatile assets, beginners

Practical starting point: wider ranges on volatile assets, tighter ranges on stable or correlated pairs where price doesn't move as dramatically.

## Using Price History to Set Your Range

Pull up the chart for your pair and look at the last 30, 60, and 90 days. Where has price spent most of its time? Identify natural support (price floors the asset has repeatedly held) and resistance (price ceilings it's struggled to break through). Set your range between these established zones — you're anchoring your position to where real market activity has been concentrated, not randomly guessing.

## ATR Bands & Historical Volatility

Average True Range (ATR) measures how much an asset typically moves over a given period. If an asset has an average daily range of \$100, a range only \$50 wide is going to go out-of-range constantly.

- Framework: Look at the 14-day ATR. Multiply by the number of days you want the position to stay active (e.g. 14–30 days). That gives a rough range width to accommodate normal movement. Combine with support/resistance — S&R; tells you where to anchor, ATR tells you how wide to go.

## How Volatility Should Influence Your Range

In a low-volatility, sideways market — tighter ranges hold up well. In a high-volatility trending market — wider ranges are more appropriate, or you need to monitor and adjust more actively.

■ **When volatility is high and the market is trending hard in one direction, widen your range or wait for things to settle. Chasing a fast-moving market with a tight range is a reliable way to go out-of-range immediately after deploying.**

## Common Beginner Mistakes

- Setting a range too tight on a volatile asset and going out-of-range within hours
- Setting a range so wide that capital efficiency is negligible and yield is barely better than holding
- Not checking historical price data at all — just centering on current price without context
- Opening a position right before a major market event when volatility is likely to spike

■ Start wider than you think you need to. Learn how your specific pair behaves. Tighten up as you get more comfortable with the rhythm of it. Range setting gets more intuitive with every position.

# Impermanent Loss & Other Risks

Impermanent loss is the topic that makes people most hesitant about LP — and that hesitation is understandable. It's a real risk. But it's also one of the most misunderstood concepts in DeFi. People either overestimate it to the point of paralysis, or ignore it entirely. Neither serves you.

## What Impermanent Loss Actually Is

When you deposit two assets into a liquidity pool, the pool automatically shifts your holding exposure as price moves. If one asset rises significantly relative to the other, the pool sells some of your winning asset and buys more of the lagging one to maintain balance. The result: when you withdraw, you end up with a different ratio than what you put in — and often less total value than if you'd simply held.

- In a liquidity pool, you will always be converted into the underperforming of the two assets. Another way to think of it: impermanent loss is like opportunity cost.

## A Simple Example

SCENARIO	OUTCOME
You deposit \$1,000 ETH + \$1,000 USDC = \$2,000 total	Position opened at 50/50 split
ETH doubles in price	Pool automatically sells ETH, buys USDC to rebalance
If you had just held	You'd have \$3,000
What you withdraw from the pool	~\$2,800
Impermanent loss	\$200 — the difference between holding vs providing liquidity

It's called *impermanent* because if price returns to exactly where it was when you entered, the loss disappears. It only becomes permanent when you withdraw while prices are diverged. You can still make money in an LP if underlying assets go up — but IL represents the difference between LP returns and pure holding returns.

## When IL Is Worth Accepting

Impermanent loss isn't automatically bad — it's a tradeoff. If a pool generates strong, consistent trading fees and you're staying in-range, those fees often outpace the IL. You're trading some price upside for a stream of fee income. When the pool performs well, that's a worthwhile deal.

- **IL becomes a serious problem when fees are low relative to price divergence, you're in a low-volume pool, or one asset makes a massive directional move the fee income can't compensate for. A token that goes near zero while you're LP'd with it — no amount of fees makes up for that. This is why asset selection matters so much.**

## Other Risks to Know

### Smart Contract Risk

Every DeFi protocol runs on code, and code can have vulnerabilities. If a smart contract gets exploited, funds can be affected. Stick to protocols with strong track records, third-party audits, and meaningful time in market. Never put more into a single protocol than you'd be comfortable losing.

### Protocol Risk

Beyond the code, evaluate the team and project. Is it audited? Is there a transparent team with a public track record? Has it been live long enough to prove itself? A few minutes of research before depositing is always worth it.

### Liquidation Risk

Specific to borrowing against collateral — covered in Module 3. In pure LP without leverage it's not a factor. But if you're using borrowed capital inside an LP strategy, liquidation risk becomes very real.

✓ There is no risk-free yield in DeFi. Every strategy carries some form of risk. The goal isn't to eliminate it — it's to understand it, size positions accordingly, and make sure the return justifies what you're taking on.

# Managing Your Position

Opening an LP position is the easy part. Managing it well over time is where most people either lose money or leave significant yield on the table.

## What Day-to-Day Management Actually Looks Like

Active LP management doesn't mean staring at charts all day. For most positions it means checking in every couple of days and having a plan for the scenarios that will come up.

- Is your position still in-range and earning fees?
- How close is price to either boundary?
- Are your fees accumulating as expected given the pool's volume?
- Has anything changed with the protocol or the underlying assets?

■ Most check-ins take five minutes. The real work happens when price starts pushing toward your boundaries — that's when decisions need to be made.

## What to Do When You Go Out of Range

Going out-of-range isn't an emergency — but it requires a decision. You have four options:

### Wait and See

If price moved outside your range temporarily and you expect it to return, staying put is sometimes the right call. Your capital isn't working, but if price snaps back quickly you'll be back in range without paying gas to adjust or locking in IL.

### The 48-Hour Rule

When a position goes out-of-range — do nothing for at least 24 to 48 hours. Price has a habit of spiking outside your range and then snapping right back within a day or two. If you rebalance in that window, you've locked in losses and paid gas for a move that wasn't necessary. Patience is a legitimate strategy in LP management.

### Close the Position Entirely

When you withdraw from an out-of-range pool, your liquidity will have converted fully into one of the two assets. You can withdraw as-is, swap to stablecoins, or redeploy elsewhere. Closing entirely is always a valid option — especially when you want to step back, reassess, and redeploy with fresh eyes.

### Rebalance

Close the position and open a new one centered around the current price. You pay gas for both transactions, but capital gets back to work immediately. Use this when price has moved decisively and you don't expect it to return to your old range.

## The Three Rebalancing Approaches

### Traditional Rebalance

Most straightforward. You've gone fully out-of-range, close the position, and reopen with current price back inside the new range. Simple and clean. The main cost: you lock in more permanent impermanent loss with this approach.

### Snuggle Rebalance

Also used when fully out-of-range, but with different positioning logic. Close and reopen with current price snuggled against the near edge of your new range rather than in the middle. You're betting on a near-term price reversion. Less IL locked in than a traditional rebalance because you're not swapping assets — but you start with price technically outside the new range.

### Pseudo Snuggle Rebalance

This one happens while you're still in-range. As price drifts toward one boundary, close and reopen with price back toward the middle of a fresh range before going out-of-range. The reason: the closer price gets to your boundary, the more IL is present. By rebalancing proactively, you lock in a smaller amount of IL rather than letting it grow. Damage control with your capital still actively earning the whole time.

## When to Exit a Position Entirely

- Pool volume has dropped significantly and fees no longer justify the risk
- One of the underlying assets has changed fundamentally — red flag, loss of confidence
- Impermanent loss has grown to where holding LP no longer makes mathematical sense
- Yield has compressed to where the time and attention required isn't worth it
- A significantly better opportunity exists elsewhere
- You've hit your target yield and want to take profit and redeploy
- Market conditions have shifted dramatically — strong trending market can chew through LP positions fast
- You're feeling emotional or stressed about the position — that's a signal your risk is too high

# Full LP Walkthrough — WETH/USDC on Base

This is where we make it real. We walk through setting up an actual position, step by step, from researching the pool to confirming the transaction on-chain. The pool: WETH/USDC on Uniswap V3 on the Base chain — an established pool with real volume and a familiar asset pair. A great starting point.

■ Have \$15–30 ready to put into a test position. Following along with real capital, even a small amount, is the fastest way to actually learn this. We're going through the manual process — not the zap-in method. You need to understand what's happening under the hood first.

## STEP 1 — RESEARCH THE POOL IN DEFIBUDDY

Go to DeFiBuddy.io and navigate to Liquidity Pools. Filter for WETH/USDC on the Base chain. Find the Uniswap V3 pool with the 0.30% fee tier. Click 'Simulate' to open the research view.

## STEP 2 — REVIEW THE LIQUIDITY DISTRIBUTION

Look at the liquidity distribution chart. A thick cluster of liquidity around the current price means more competition for fees. Not a dealbreaker — just factor it into your expectations.

## STEP 3 — REVIEW THE VOLUME HISTORY

Switch to the Volume History tab. Look at 90-day and 30-day views. You're looking for consistency — regular volume, not a pool that had one big spike and has been dead since. For this pool, look for days consistently in the \$40M–\$80M range.

## STEP 4 — SET YOUR RANGE IN TRADINGVIEW

Open TradingView and pull up the ETH/USD chart. Find a resistance level above current price and a support level below it. Goal: set a range with current price roughly in the middle, 20–40% total width. Mark those levels with horizontal lines.

## STEP 5 — NAVIGATE TO UNISWAP

Go to Uniswap.org. Click Explore → Pools → switch to Base chain. Search ETH/USDC and select the V3 0.30% fee tier pool. Click 'Add Liquidity.'

## STEP 6 — ENTER YOUR CUSTOM RANGE

Scroll to the Min Price and Max Price fields. Enter your support level as minimum, resistance as maximum. Uniswap will adjust to the nearest tick — that's normal, it's fine.

## STEP 7 — DETERMINE YOUR ASSET RATIO

Your range and current price together determine the ratio of ETH and USDC you need. If current price is dead center, you'll be close to 50/50. Enter a test deposit amount and watch the two fields populate — that tells you exactly what you need.

## STEP 8 — UNWRAP ETH IF NEEDED

Uniswap's Base chain interface requires Base ETH, not WETH. If your wallet holds WETH, open a second Uniswap tab, swap WETH → ETH for the exact amount you need, and confirm.

## STEP 9 — CONFIRM BALANCES AND CLICK REVIEW

Back on the add liquidity tab, confirm both ETH and USDC amounts show as available. Leave a small amount of ETH in your wallet for gas — don't deposit your entire ETH balance. Click Review, then Create.

#### **STEP 10 — APPROVE AND CONFIRM BOTH TRANSACTIONS**

Uniswap prompts two transactions. First gives Uniswap permission to access your assets. Second deposits capital into the pool. Approve both in your wallet — hardware wallet confirmation if you're using Ledger or Trezor. Once both confirm, your position is live.

#### **STEP 11 — VERIFY YOUR POSITION**

Your position appears on Uniswap's interface showing your price range, deposited amounts, and 'In Range' status. Fees begin accumulating as trades flow through the pool. When ready to collect fees or close, do both directly from this screen.

✓ That's the full process. Get comfortable getting in, watching a position, collecting fees, and getting out. Once that feels natural, you can apply this same framework to any pool you evaluate going forward.

# Tracking Systems & Tools

Effective portfolio tracking is essential for understanding your investments, earnings, and overall financial progress. Without a proper tracking system, it's easy to lose sight of your positions, miss profit-taking opportunities, or take on unnecessary risk. Use both recommended tools in tandem.

## DeFiBuddy.io — Primary Tracking Tool

<b>Automatic Position Tracking</b>	Copy and paste your wallet address to view positions, fees earned, and portfolio allocations in real time
<b>Analyze Pools Directly</b>	Research and scan for new opportunities inside the same tool
<b>Simulation &amp; Correlation</b>	Simulate pool earnings over time and explore asset correlations
<b>Macro-Economic Data</b>	Fear & Greed Index, Total Crypto Market Cap, and Top 100 Coins in one place
<b>Limitation</b>	Not all chains and platforms supported yet — V3 and V4 will expand coverage

## UIG Digital CLP Tracker — Hard Data Source

<b>Comprehensive Tracking</b>	Monitors portfolio allocation, earnings, and performance
<b>Advanced Metrics</b>	Tracks risk exposure, capital efficiency, and return rates
<b>Simple Position Entry</b>	Doesn't require proficiency in spreadsheets
<b>Limitation</b>	Manual updates required — must input data regularly

## UIG CLP Spreadsheet Tracker — Backup Copy

<b>Full tracking</b>	Monitors positions, earnings, projections, and fees
<b>Local copy</b>	Keep a hard copy of your data on your own machine
<b>Limitation</b>	Manual updates required

## Trusted Links & Resources

DeFiBuddy.io	<a href="https://defibuddy.io">defibuddy.io</a>
UIG Digital CLP Tracker	<a href="https://cryptolabsresearch.com/uigtools/clptracker/">cryptolabsresearch.com/uigtools/clptracker/</a>
Uniswap (EVM DEX)	<a href="https://uniswap.org">uniswap.org</a>
Jupiter (Solana DEX)	<a href="https://jup.ag">jup.ag</a>
TradingView (Charts)	<a href="https://tradingview.com">tradingview.com</a>
Ledger (Hardware Wallet)	<a href="https://ledger.com">ledger.com</a>

✓ Module 2 Complete. You now understand the full LP lifecycle — from evaluating pools and setting ranges, through managing impermanent loss and rebalancing decisions. The next step is deploying capital with intention and tracking it properly.