Deconstructing the Weighted Percentage (T_p) Calculation

In ZeroLend's model, T_p represents the Total or Weighted Percentage, crucial for determining rewards. This metric combines the proportions of dynamic Liquidity Provision (dLP_p) and single-staked ZERO (Z_p) relative to the total USD value of a user's lending deposits. Here's a clearer breakdown:

```
Calculating dLP_p and Z_p
dLP p Calculation: Measures the USD value of dLP locked, factoring in the double valuation of ZERO within LP tokens.
dLPp = dLPDeposits = ZERO2 \times 2Depositsdef = \frac{dLP}{Deposits} = \frac{dLP}{Deposits} = \frac{2LP}{Deposits} = \frac{dLP}{Deposits} = \frac{dLP
{Deposits} d L P p
= De p os its
d L P
 = De p os its
ZERO 2
 2 Note: ZERO 2 \textrm{ZERO} 2 ZERO 2 adjusts with LP token ratios, while veZERO earnings depend solely on the
ZERO quantity at deposit time.
Z p Calculation: Relates to the USD value of ZERO locked in single asset staking.
Zp = ZERO 1 Deposits Zp = \frac{ZERO}{1}{Deposits} Zp
= Deposits
ZERO 1 Combining for Total Percentage (T_p)
Tp = 4 \times dLPp + 1 \times Zp = 4 \times ZERO 2 \times 2Deposits + 1 \times ZERO 1Deposits Tp = 4 \times dLPp + 1 \times ZERO 1Deposits Tp = 4 \times dLPp + 1 \times Zero 1Deposits Tp = 4 \times dLPp + 1 \times Zero 1Deposits Tp = 4 \times dLPp + 1 \times Zero 1Deposits Tp = 4 \times dLPp + 1 \times Zero 1Deposits Tp = 4 \times dLPp + 1 \times Zero 1Deposits Tp = 4 \times dLPp + 1 \times dLPp + 
4 \times \frac{\textrm{ZERO} 2 \times 2}{Deposits} + 1 \times \frac{\textrm{ZERO} 1}{Deposits} T p
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 + 1
 \times Zp
 = 4
 × De posits
ZERO 2
 2
  + 1
 × Deposits
ZERO 1 and,
f(Tp) = f(4 \times ZERO\ 2 \times 2\ D\ e\ p\ o\ s\ i\ t\ s + 1 \times ZERO\ 1\ D\ e\ p\ o\ s\ i\ t\ s) = \{0\ if\ 0.00 \le T\ p\ < 0.10\ 0.5\ if\ 0.10 \le T\ p\ < 0.15\ if\ 0.10 \le T\ p\ < 
 0.75 if 0.15 \le T p < 0.20 1.0 if 0.20 \le T p < 0.25 1.1 if 0.25 \le T p < 0.30 1.25 if 0.30 \le T p < 0.40 1.5 if 0.40 \le T p < 0.50 2.0 if
 0.50 \le T p f(T p) = f(4 \times \frac{ZERO}{2 \times 2} Deposits) + 1 \times \frac{ZERO}{1} Deposits) = f(4 \times \frac{ZERO}{1} Deposits)
& \text{if} 0.20 \leq T_p < 0.25\ 1.1 & \text{if} 0.25 \leq T_p < 0.30 \ 1.25 & \text{if} 0.30 \leq T_p < 0.40\ 1.5 & \text{if} 0.40
\leq T_p < 0.50 \ 2.0 \ \text{text{if } 0.50 \ f }
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\end{cases} f (T p)

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ZERO 2
×
2
+ 1
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ZERO 1 )
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Тр
<
0.30 if 0.30
≤
Тр
<
0.40 if 0.40
≤
```

T p
<
0.50 if 0.50
≤

T p This function assigns reward levels based on the calculated T_p value, with different tiers from 0 to 2.0, enhancing rewards progressively as T_p increases.

<u>Previous Protocol Power/Weight Next Construction of dLP & ZERO Power</u>Last updated29 days ago On this page Was this helpful? <u>Edit on GitHub</u>