

# DATA LINEAGE & AUDIT TRAIL

Account: Composite  
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## DATA FLOW DOCUMENTATION

| Step | Data Element      | Source            | Transformation                   | Output Location        |
|------|-------------------|-------------------|----------------------------------|------------------------|
| 1    | Raw Holdings      | Client CSV Upload | None (preserved)                 | Excel: Source_Data     |
| 2    | Monthly Values    | Client CSV        | Parse dates/values               | Excel: Source_Data     |
| 3    | Monthly Returns   | Client CSV        | Convert % → decimal              | Excel: TWR_Calculation |
| 4    | Annual Returns    | Monthly Returns   | $\prod(1+r) - 1$                 | Excel: TWR_Calculation |
| 5    | Cumulative Return | All Monthly       | $\prod(1+r) - 1$                 | Excel: TWR_Calculation |
| 6    | Annualized Return | Cumulative        | $(1+c)^{(12/n)} - 1$             | Excel: Annualized      |
| 7    | Benchmark Data    | Yahoo Finance     | LIVE API fetch                   | Excel: Benchmark       |
| 8    | Risk-Free Rate    | Yahoo Finance     | LIVE (^IRX)                      | Excel: Risk_Metrics    |
| 9    | Volatility        | Monthly Returns   | $\text{StdDev} \times \sqrt{12}$ | Excel: Risk_Metrics    |
| 10   | Sharpe Ratio      | Multiple          | $(R_p - R_f) / \sigma$           | Excel: Risk_Metrics    |

## VERIFICATION STATEMENT

This document certifies that all performance calculations can be independently verified using the accompanying Excel workbook. All formulas are visible in cells (not hidden values), and the data lineage above traces each calculation from source to final output.

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