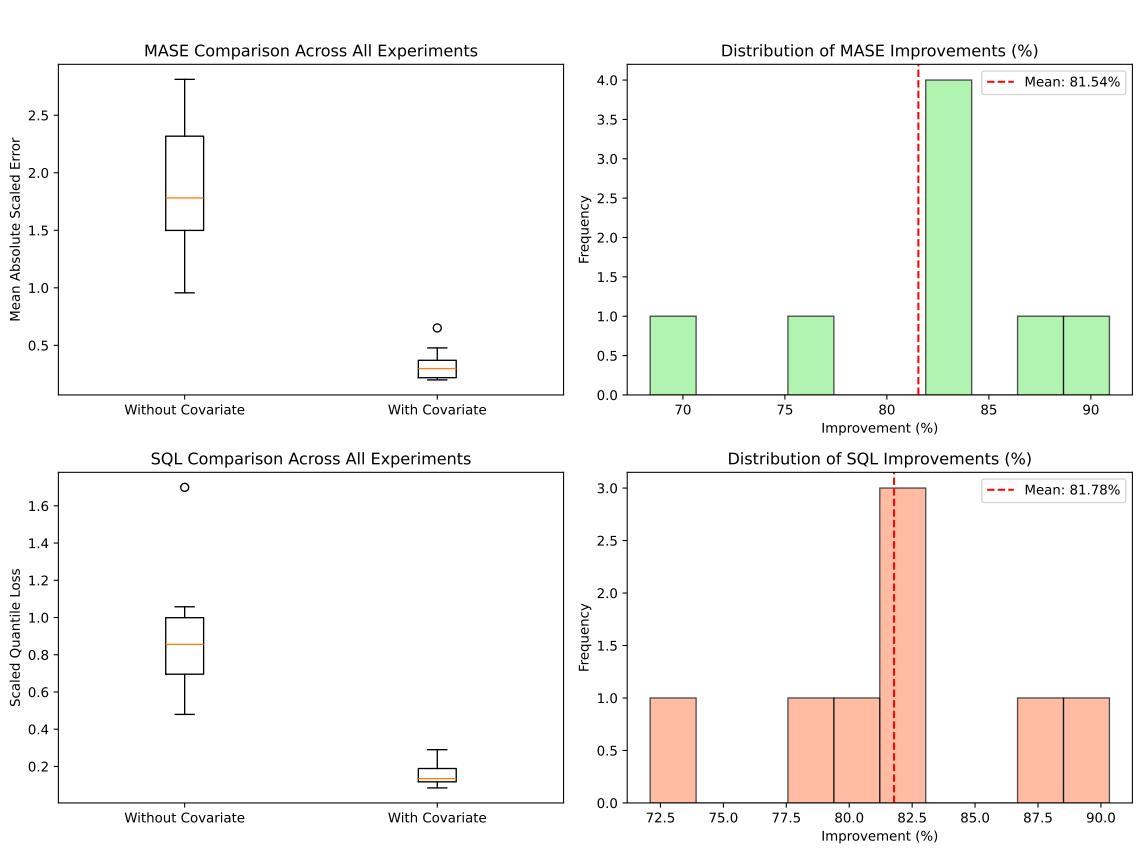
Covariate Study Summary: Ar1, Pulses, Steps, Ramps



Detailed Statistics

```
Covariate Study Detailed Results
Covariate Types: ar1, pulses, steps, ramps
Number of Experiments: 8
MASE Results:
- Without Covariate: 1.8805 \pm 0.6111
- With Covariate: 0.3358 \pm 0.1462
- Average Improvement: 81.54%
- Median Improvement: 82.16%
SOL Results:
- Without Covariate: 0.9034 \pm 0.3525
- With Covariate: 0.1580 \pm 0.0635
- Average Improvement: 81.78%
- Median Improvement: 81.78%
Study Parameters:
- Weight: 1.0
- Relation: multiplicative
- Train Ratio: 0.6
- Covariate Weights: Randomized per experiment (Dirichlet distribution)
Best Performing Experiment (MASE):
- Experiment 1: 90.91% improvement
Worst Performing Experiment (MASE):
- Experiment 5: 68.39% improvement
```