

Table 1: Forecasting performance achieved per forecasting horizon - Point Forecasts

| | Mean sMAPE | | | | | Mean MASE | | | | |
|-------------------|----------------|---------------|---------------|----------------|------|----------------|---------------|---------------|----------------|------|
| | Quarter (1) | Year (1-4) | Long (5-6) | Total (1-6) | Rank | Quarter (1) | Year (1-4) | Long (5-6) | Total (1-6) | Rank |
| EBIT | | | | | | | | | | |
| Naive | 28.8 | 33.0 | 41.3 | 35.8 | 7 | 1.3 | 1.4 | 1.9 | 1.6 | 8 |
| Snaive | 30.8 | 31.6 | 41.9 | 35.0 | 6 | 1.2 | 1.2 | 1.7 | 1.4 | 5 |
| Drift | 28.9 | 33.6 | 42.1 | 36.4 | 9 | 1.3 | 1.5 | 1.9 | 1.6 | 9 |
| Holt | 28.2 | 33.2 | 42.4 | 36.2 | 8 | 1.2 | 1.4 | 1.8 | 1.5 | 6 |
| ARIMA | 24.2 | 29.9 | 38.8 | 32.9 | 5 | 0.8 | 1.1 | 1.5 | 1.2 | 2 |
| Simple | 27.8 | 30.1 | 34.0 | 31.4 | 2 | 1.0 | 1.1 | 1.3 | 1.2 | 1 |
| GRU | 28.6 | 30.8 | 34.5 | 32.0 | 3 | 1.1 | 1.2 | 1.3 | 1.2 | 3 |
| LSTM | 28.5 | 31.2 | 35.3 | 32.6 | 4 | 1.1 | 1.2 | 1.4 | 1.3 | 4 |
| ARNN | 25.4 | 28.7 | 33.5 | 30.3 | 1 | 1.1 | 0.7 | 1.4 | 1.6 | 7 |
| Net Income | | | | | | | | | | |
| Naive | 38.5 | 43.4 | 52.1 | 46.3 | 7 | 1.2 | 1.4 | 1.8 | 1.5 | 8 |
| Snaive | 41.5 | 42.8 | 53.4 | 46.3 | 6 | 1.2 | 1.2 | 1.7 | 1.4 | 6 |
| Drift | 38.6 | 43.8 | 52.3 | 46.6 | 9 | 1.3 | 1.4 | 1.8 | 1.6 | 9 |
| Holt | 38.1 | 43.3 | 52.6 | 46.4 | 8 | 1.2 | 1.3 | 1.7 | 1.5 | 7 |
| ARIMA | 34.4 | 40.4 | 49.9 | 43.5 | 5 | 0.9 | 1.1 | 1.5 | 1.3 | 1 |
| Simple | 38.2 | 40.9 | 45.4 | 42.4 | 2 | 1.1 | 1.2 | 1.4 | 1.3 | 3 |
| GRU | 38.4 | 41.3 | 45.6 | 42.7 | 3 | 1.1 | 1.2 | 1.4 | 1.3 | 2 |
| LSTM | 39.4 | 42.0 | 46.5 | 43.5 | 4 | 1.1 | 1.2 | 1.4 | 1.3 | 4 |
| ARNN | 35.6 | 39.0 | 44.6 | 40.9 | 1 | 1.0 | 0.7 | 1.2 | 1.4 | 5 |
| EPS | | | | | | | | | | |
| Naive | 39.6 | 44.6 | 53.2 | 47.4 | 7 | 1.2 | 1.4 | 1.7 | 1.5 | 9 |
| Snaive | 42.3 | 44.0 | 54.7 | 47.6 | 8 | 1.2 | 1.2 | 1.7 | 1.4 | 6 |
| Drift | 39.8 | 45.1 | 53.6 | 47.9 | 9 | 1.2 | 1.4 | 1.7 | 1.5 | 8 |
| Holt | 38.9 | 44.1 | 52.6 | 46.9 | 6 | 1.1 | 1.3 | 1.6 | 1.4 | 7 |
| ARIMA | 35.3 | 41.5 | 51.1 | 44.7 | 4 | 0.9 | 1.1 | 1.4 | 1.2 | 1 |
| Simple | 38.8 | 41.9 | 46.5 | 43.4 | 2 | 1.1 | 1.1 | 1.4 | 1.2 | 2 |
| GRU | 39.7 | 42.7 | 47.1 | 44.1 | 3 | 1.1 | 1.2 | 1.4 | 1.2 | 3 |
| LSTM | 39.9 | 43.2 | 48.0 | 44.8 | 5 | 1.1 | 1.2 | 1.4 | 1.3 | 4 |
| ARNN | 36.4 | 40.3 | 46.1 | 42.3 | 1 | 1.0 | 0.7 | 1.2 | 1.4 | 5 |

Mean Metrics

Ranks

Table 2: Forecasting performance achieved per forecasting horizon - Prediction Intervals

| | Mean sMIS | | | | | Mean ACD | | | | |
|-------------------|----------------|---------------|---------------|----------------|------|----------------|---------------|---------------|----------------|------|
| | Quarter (1) | Year (1-4) | Long (5-6) | Total (1-6) | Rank | Quarter (1) | Year (1-4) | Long (5-6) | Total (1-6) | Rank |
| EBIT | | | | | | | | | | |
| Naive | 5.9 | 9.2 | 4.7 | 10.8 | 8 | 0.1 | 0.1 | 0.1 | 0.1 | 2 |
| Snaive | 5.3 | 5.3 | 2.3 | 5.8 | 7 | 0.2 | 0.1 | 0.2 | 0.2 | 3 |
| Drift | 6.0 | 9.5 | 5.0 | 11.3 | 9 | 0.1 | 0.1 | 0.1 | 0.1 | 1 |
| Holt | 4.7 | 5.2 | 2.1 | 5.6 | 6 | 0.2 | 0.2 | 0.2 | 0.2 | 4 |
| ARIMA | 3.4 | 4.1 | 1.8 | 4.5 | 5 | 0.2 | 0.2 | 0.2 | 0.2 | 5 |
| Simple | 3.7 | 3.8 | 1.3 | 3.9 | 4 | 0.2 | 0.2 | 0.3 | 0.2 | 6 |
| GRU | 2.8 | 2.9 | 1.0 | 3.0 | 2 | 0.4 | 0.4 | 0.4 | 0.4 | 8 |
| LSTM | 2.6 | 2.6 | 0.9 | 2.7 | 1 | 0.4 | 0.4 | 0.4 | 0.4 | 9 |
| ARNN | 3.4 | 3.6 | 1.4 | 3.8 | 3 | 0.2 | 0.2 | 0.3 | 0.2 | 7 |
| Net Income | | | | | | | | | | |
| Naive | 5.8 | 8.8 | 4.5 | 10.3 | 8 | 0.1 | 0.1 | 0.1 | 0.1 | 2 |
| Snaive | 5.6 | 5.6 | 2.4 | 6.1 | 7 | 0.2 | 0.1 | 0.2 | 0.1 | 3 |
| Drift | 5.9 | 9.1 | 4.8 | 10.8 | 9 | 0.1 | 0.1 | 0.1 | 0.1 | 1 |
| Holt | 4.6 | 5.1 | 2.0 | 5.4 | 6 | 0.2 | 0.2 | 0.2 | 0.2 | 4 |
| ARIMA | 3.7 | 4.2 | 1.8 | 4.5 | 5 | 0.2 | 0.2 | 0.2 | 0.2 | 5 |
| Simple | 3.3 | 3.4 | 1.2 | 3.5 | 3 | 0.3 | 0.2 | 0.3 | 0.2 | 6 |
| GRU | 2.5 | 2.5 | 0.9 | 2.6 | 2 | 0.4 | 0.4 | 0.4 | 0.4 | 8 |
| LSTM | 2.2 | 2.3 | 0.8 | 2.3 | 1 | 0.5 | 0.4 | 0.5 | 0.5 | 9 |
| ARNN | 3.2 | 3.4 | 1.3 | 3.5 | 4 | 0.3 | 0.2 | 0.3 | 0.2 | 7 |
| EPS | | | | | | | | | | |
| Naive | 5.8 | 8.7 | 4.4 | 10.1 | 8 | 0.1 | 0.1 | 0.1 | 0.1 | 2 |
| Snaive | 5.6 | 5.6 | 2.4 | 6.1 | 7 | 0.2 | 0.1 | 0.2 | 0.1 | 3 |
| Drift | 5.8 | 8.9 | 4.6 | 10.6 | 9 | 0.1 | 0.1 | 0.1 | 0.1 | 1 |
| Holt | 4.5 | 4.8 | 1.8 | 5.1 | 6 | 0.2 | 0.2 | 0.2 | 0.2 | 5 |
| ARIMA | 3.7 | 4.2 | 1.7 | 4.5 | 5 | 0.2 | 0.2 | 0.2 | 0.2 | 4 |
| Simple | 3.4 | 3.5 | 1.2 | 3.5 | 3 | 0.3 | 0.2 | 0.3 | 0.2 | 6 |
| GRU | 2.5 | 2.6 | 0.9 | 2.7 | 2 | 0.4 | 0.4 | 0.4 | 0.4 | 8 |
| LSTM | 2.2 | 2.3 | 0.8 | 2.4 | 1 | 0.4 | 0.4 | 0.5 | 0.4 | 9 |
| ARNN | 3.2 | 3.4 | 1.3 | 3.5 | 4 | 0.3 | 0.2 | 0.3 | 0.2 | 7 |

Table 3: Forecasting performance ranking per forecasting horizon - Point Forecasts

| | sMAPE (rank) | | | | | MASE (rank) | | | | |
|-------------------|----------------|---------------|---------------|----------------|------|----------------|---------------|---------------|----------------|------|
| | Quarter (1) | Year (1-4) | Long (5-6) | Total (1-6) | Rank | Quarter (1) | Year (1-4) | Long (5-6) | Total (1-6) | Rank |
| EBIT | | | | | | | | | | |
| Naive | 4.4 | 5.1 | 5.7 | 5.4 | 6 | 4.6 | 5.5 | 5.9 | 5.5 | 6 |
| Snaive | 6.3 | 5.7 | 6.7 | 6.2 | 9 | 6.4 | 5.7 | 6.3 | 5.9 | 8 |
| Drift | 4.5 | 5.4 | 5.7 | 5.5 | 7 | 4.8 | 5.9 | 6.1 | 5.7 | 7 |
| Holt | 4.6 | 5.4 | 6.0 | 5.7 | 8 | 4.7 | 6.0 | 6.4 | 6.0 | 9 |
| ARIMA | 3.7 | 4.2 | 5.3 | 4.7 | 3 | 3.8 | 4.4 | 5.2 | 4.5 | 4 |
| Simple | 5.6 | 4.9 | 3.9 | 4.4 | 2 | 5.5 | 5.0 | 4.0 | 4.2 | 2 |
| GRU | 5.8 | 5.4 | 4.1 | 4.9 | 4 | 5.7 | 5.4 | 4.0 | 4.5 | 3 |
| LSTM | 6.0 | 5.6 | 4.6 | 5.2 | 5 | 5.9 | 5.8 | 4.5 | 4.9 | 5 |
| ARNN | 4.1 | 3.3 | 3.2 | 3.1 | 1 | 3.5 | 1.3 | 2.6 | 3.8 | 1 |
| Net Income | | | | | | | | | | |
| Naive | 4.5 | 5.0 | 5.6 | 5.3 | 6 | 4.8 | 5.5 | 5.8 | 5.6 | 6 |
| Snaive | 6.2 | 5.8 | 6.5 | 6.3 | 9 | 6.3 | 5.9 | 6.4 | 6.1 | 9 |
| Drift | 4.5 | 5.2 | 5.5 | 5.3 | 7 | 5.0 | 6.0 | 6.1 | 5.9 | 8 |
| Holt | 4.6 | 5.3 | 5.7 | 5.5 | 8 | 4.9 | 5.8 | 6.2 | 5.9 | 7 |
| ARIMA | 4.0 | 4.3 | 5.4 | 4.8 | 4 | 4.2 | 4.7 | 5.3 | 4.7 | 4 |
| Simple | 5.5 | 5.0 | 4.1 | 4.5 | 2 | 5.4 | 5.0 | 4.1 | 4.3 | 2 |
| GRU | 5.6 | 5.2 | 4.2 | 4.8 | 3 | 5.5 | 5.2 | 4.1 | 4.4 | 3 |
| LSTM | 6.0 | 5.6 | 4.6 | 5.2 | 5 | 5.8 | 5.6 | 4.5 | 4.9 | 5 |
| ARNN | 4.2 | 3.5 | 3.5 | 3.3 | 1 | 3.1 | 1.4 | 2.4 | 3.2 | 1 |
| EPS | | | | | | | | | | |
| Naive | 4.5 | 5.1 | 5.6 | 5.4 | 7 | 4.8 | 5.7 | 5.9 | 5.7 | 7 |
| Snaive | 6.2 | 5.9 | 6.6 | 6.3 | 9 | 6.3 | 6.0 | 6.4 | 6.2 | 9 |
| Drift | 4.7 | 5.4 | 5.4 | 5.4 | 8 | 5.0 | 6.1 | 6.0 | 6.0 | 8 |
| Holt | 4.5 | 5.0 | 5.4 | 5.2 | 5 | 4.7 | 5.5 | 5.8 | 5.4 | 6 |
| ARIMA | 4.0 | 4.3 | 5.1 | 4.6 | 3 | 4.2 | 4.5 | 5.1 | 4.6 | 4 |
| Simple | 5.4 | 4.9 | 4.2 | 4.5 | 2 | 5.4 | 5.0 | 4.3 | 4.4 | 2 |
| GRU | 5.6 | 5.2 | 4.2 | 4.8 | 4 | 5.6 | 5.1 | 4.2 | 4.4 | 3 |
| LSTM | 5.8 | 5.7 | 4.8 | 5.4 | 6 | 5.7 | 5.7 | 4.8 | 5.1 | 5 |
| ARNN | 4.2 | 3.6 | 3.6 | 3.3 | 1 | 3.2 | 1.4 | 2.4 | 3.2 | 1 |

Table 4: Forecasting performance ranking per forecasting horizon - Prediction Intervals

| | sMIS (rank) | | | | Rank |
|-------------------|----------------|---------------|---------------|----------------|------|
| | Quarter (1) | Year (1-4) | Long (5-6) | Total (1-6) | |
| EBIT | | | | | |
| Naive | 6.9 | 7.4 | 7.6 | 7.5 | 8 |
| Snaive | 7.3 | 6.5 | 6.6 | 6.5 | 7 |
| Drift | 7.3 | 8.5 | 8.7 | 8.6 | 9 |
| Holt | 5.4 | 5.6 | 5.7 | 5.7 | 6 |
| ARIMA | 3.5 | 4.0 | 4.9 | 4.4 | 5 |
| Simple | 5.1 | 4.5 | 3.7 | 4.2 | 4 |
| GRU | 3.0 | 2.6 | 2.4 | 2.5 | 2 |
| LSTM | 2.3 | 1.8 | 1.5 | 1.7 | 1 |
| ARNN | 4.1 | 4.0 | 4.0 | 4.0 | 3 |
| Net Income | | | | | |
| Naive | 7.3 | 7.6 | 7.8 | 7.7 | 8 |
| Snaive | 7.7 | 6.8 | 6.7 | 6.8 | 7 |
| Drift | 7.5 | 8.7 | 8.8 | 8.8 | 9 |
| Holt | 5.5 | 5.7 | 5.6 | 5.7 | 6 |
| ARIMA | 4.1 | 4.4 | 4.9 | 4.6 | 5 |
| Simple | 4.4 | 4.0 | 3.5 | 3.8 | 3 |
| GRU | 2.6 | 2.4 | 2.3 | 2.3 | 2 |
| LSTM | 1.8 | 1.6 | 1.4 | 1.4 | 1 |
| ARNN | 4.0 | 4.0 | 3.9 | 3.9 | 4 |
| EPS | | | | | |
| Naive | 7.3 | 7.6 | 7.8 | 7.7 | 8 |
| Snaive | 7.7 | 6.8 | 6.8 | 6.8 | 7 |
| Drift | 7.5 | 8.7 | 8.9 | 8.8 | 9 |
| Holt | 5.4 | 5.4 | 5.2 | 5.3 | 6 |
| ARIMA | 4.0 | 4.4 | 5.1 | 4.7 | 5 |
| Simple | 4.5 | 4.1 | 3.6 | 3.9 | 3 |
| GRU | 2.6 | 2.4 | 2.3 | 2.4 | 2 |
| LSTM | 1.9 | 1.6 | 1.4 | 1.5 | 1 |
| ARNN | 4.1 | 4.0 | 4.0 | 4.0 | 4 |