

Table 1: Mean 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	2.0	1.6	8
Snaive	30.8	31.6	41.9	35.0	6	1.2	1.2	1.8	1.4	6
Drift	28.9	33.6	42.1	36.4	9	1.3	1.5	2.0	1.6	9
Holt	28.2	33.2	42.4	36.2	8	1.2	1.4	1.9	1.5	7
ARIMA	24.2	29.9	38.8	32.9	5	0.8	1.1	1.6	1.2	3
Simple	27.8	30.1	34.0	31.4	2	1.0	1.1	1.4	1.2	2
GRU	28.6	30.8	34.5	32.0	3	1.1	1.2	1.4	1.2	4
LSTM	28.5	31.2	35.3	32.6	4	1.1	1.2	1.5	1.3	5
ARNN	25.3	28.6	33.5	30.3	1	0.9	1.1	1.4	1.2	1
Net Income										
Naive	38.5	43.4	52.1	46.3	7	1.2	1.4	1.9	1.5	8
Snaive	41.5	42.8	53.4	46.3	6	1.2	1.2	1.8	1.4	6
Drift	38.6	43.8	52.3	46.6	9	1.3	1.4	1.9	1.6	9
Holt	38.1	43.3	52.6	46.4	8	1.2	1.3	1.8	1.5	7
ARIMA	34.4	40.4	49.9	43.5	5	0.9	1.1	1.6	1.3	2
Simple	38.2	40.9	45.4	42.4	2	1.1	1.2	1.4	1.3	4
GRU	38.4	41.3	45.6	42.7	3	1.1	1.2	1.4	1.3	3
LSTM	39.4	42.0	46.5	43.5	4	1.1	1.2	1.5	1.3	5
ARNN	35.5	39.0	44.5	40.8	1	1.0	1.1	1.4	1.2	1
EPS										
Naive	39.6	44.6	53.2	47.4	7	1.2	1.4	1.8	1.5	9
Snaive	42.3	44.0	54.7	47.6	8	1.2	1.2	1.8	1.4	6
Drift	39.8	45.1	53.6	47.9	9	1.2	1.4	1.8	1.5	8
Holt	38.9	44.1	52.6	46.9	6	1.1	1.3	1.7	1.4	7
ARIMA	35.3	41.5	51.1	44.7	4	0.9	1.1	1.5	1.2	2
Simple	38.8	41.9	46.5	43.4	2	1.1	1.1	1.4	1.2	3
GRU	39.7	42.7	47.1	44.1	3	1.1	1.2	1.4	1.2	4
LSTM	39.9	43.2	48.0	44.8	5	1.1	1.2	1.5	1.3	5
ARNN	36.3	40.3	46.0	42.2	1	1.0	1.1	1.4	1.2	1

Mean Metrics

Median Metrics

Ranks

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

	Mean sMIS				Rank
	Quarter (1)	Year (1-4)	Long (5-6)	Total (1-6)	
EBIT					
Naive	9.2	11.4	16.7	13.2	5
Snaive	9.4	10.5	16.6	12.5	3
Drift	8.8	11.5	17.0	13.3	7
Holt	8.9	10.9	18.0	13.3	6
ARIMA	7.7	10.3	15.9	12.2	1
Simple	10.2	11.7	15.6	13.0	4
GRU	16.1	17.7	21.6	19.0	8
LSTM	18.1	19.9	25.3	21.7	9
ARNN	9.4	11.2	15.0	12.5	2
Net Income					
Naive	9.2	10.9	15.4	12.4	1
Snaive	9.7	10.8	15.6	12.4	2
Drift	8.9	11.0	15.7	12.6	4
Holt	9.1	11.1	17.2	13.1	5
ARIMA	8.6	10.9	15.6	12.5	3
Simple	12.0	13.1	16.9	14.4	7
GRU	17.8	19.6	23.8	21.0	8
LSTM	20.4	22.2	27.9	24.1	9
ARNN	10.8	12.7	16.3	13.9	6
EPS					
Naive	9.0	10.6	15.0	12.1	1
Snaive	9.9	10.9	16.2	12.7	4
Drift	8.8	10.7	15.3	12.2	3
Holt	8.9	10.9	17.1	13.0	5
ARIMA	8.6	10.6	15.1	12.1	2
Simple	11.2	12.4	16.1	13.6	7
GRU	17.2	18.9	22.7	20.2	8
LSTM	19.0	21.1	26.8	23.0	9
ARNN	10.4	12.1	15.5	13.2	6

Table 3: Median forecasting performance achieved per forecasting horizon - Point Forecasts

	Median sMAPE					Median 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	18.3	23.4	29.7	25.5	8	0.8	1.2	1.6	1.4	9
Snaive	19.5	21.1	29.5	24.1	6	1.1	1.1	1.6	1.3	6
Drift	18.4	23.5	30.4	25.9	9	0.8	1.2	1.6	1.3	8
Holt	18.8	22.7	29.8	24.8	7	0.9	1.1	1.7	1.3	7
ARIMA	15.5	19.6	25.8	22.0	2	0.8	1.0	1.4	1.2	3
Simple	18.4	21.3	23.9	22.5	3	0.9	1.1	1.3	1.2	2
GRU	19.4	22.4	24.8	23.2	5	1.0	1.1	1.3	1.2	4
LSTM	19.5	21.9	24.3	23.1	4	1.0	1.1	1.4	1.2	5
ARNN	16.1	19.5	22.9	20.8	1	0.8	1.0	1.3	1.1	1
Net Income										
Naive	28.2	32.3	39.5	34.9	7	0.9	1.2	1.5	1.3	7
Snaive	27.7	32.1	41.0	35.4	8	1.1	1.2	1.6	1.3	8
Drift	27.9	32.4	40.3	35.5	9	0.9	1.2	1.6	1.3	9
Holt	27.3	31.2	40.7	34.6	6	0.9	1.2	1.6	1.3	6
ARIMA	24.2	30.7	38.2	33.5	5	0.9	1.1	1.5	1.2	4
Simple	27.5	31.8	34.5	32.7	2	1.0	1.1	1.4	1.2	3
GRU	28.5	31.5	36.5	33.4	4	1.0	1.1	1.3	1.2	2
LSTM	29.2	31.8	37.0	33.2	3	1.0	1.2	1.4	1.3	5
ARNN	25.3	29.8	33.7	30.5	1	0.9	1.1	1.3	1.2	1
EPS										
Naive	28.5	33.6	42.0	36.4	8	0.9	1.1	1.5	1.3	8
Snaive	29.1	33.7	41.8	36.2	7	1.1	1.2	1.6	1.3	9
Drift	29.3	33.8	41.6	36.7	9	0.9	1.1	1.5	1.3	6
Holt	28.1	31.8	40.4	34.9	5	0.9	1.1	1.5	1.2	5
ARIMA	25.0	31.4	38.5	33.6	3	0.8	1.0	1.4	1.2	2
Simple	28.4	31.6	34.7	32.8	2	1.0	1.1	1.3	1.2	3
GRU	28.4	32.5	36.3	33.8	4	1.0	1.1	1.3	1.2	4
LSTM	28.9	33.6	36.5	34.9	6	1.0	1.2	1.4	1.3	7
ARNN	25.9	30.4	33.6	32.2	1	0.9	1.1	1.3	1.2	1

Table 4: Median forecasting performance achieved per forecasting horizon - Prediction Intervals

	Median sMIS				Rank
	Quarter (1)	Year (1-4)	Long (5-6)	Total (1-6)	
EBIT					
Naive	6.3	9.0	12.2	10.2	3
Snaive	7.2	8.3	10.1	9.2	2
Drift	6.2	8.8	12.8	10.4	5
Holt	5.9	8.7	12.8	10.2	4
ARIMA	5.4	8.1	11.1	9.2	1
Simple	7.7	9.9	12.9	10.8	7
GRU	13.7	16.5	19.5	17.7	8
LSTM	15.5	18.4	23.3	20.4	9
ARNN	6.9	9.5	11.8	10.5	6
Net Income					
Naive	6.6	9.1	12.1	10.2	4
Snaive	7.2	9.1	10.1	9.6	1
Drift	6.7	9.2	12.7	10.5	5
Holt	6.2	9.2	11.6	10.2	3
ARIMA	6.0	8.9	11.2	10.0	2
Simple	9.3	12.1	13.8	12.6	7
GRU	14.9	19.0	21.2	20.4	8
LSTM	17.7	21.7	25.3	22.9	9
ARNN	8.5	11.5	13.3	12.4	6
EPS					
Naive	6.4	8.7	12.1	10.0	3
Snaive	7.2	9.3	10.3	9.8	1
Drift	6.4	8.8	12.4	10.2	4
Holt	5.8	8.8	12.3	10.0	2
ARIMA	5.6	8.7	11.2	10.2	5
Simple	8.8	11.4	13.3	11.9	6
GRU	14.6	18.2	20.7	19.1	8
LSTM	16.6	20.4	24.4	22.0	9
ARNN	8.2	11.2	13.1	12.1	7

Table 5: 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	4.4	5.2	5.8	5.5	6
Snaive	6.3	5.7	6.7	6.2	9	6.4	5.4	6.5	6.0	8
Drift	4.5	5.4	5.7	5.5	7	4.5	5.6	5.9	5.8	7
Holt	4.6	5.4	6.0	5.7	8	4.6	5.7	6.3	6.1	9
ARIMA	3.7	4.2	5.3	4.7	3	3.6	3.9	5.2	4.5	3
Simple	5.6	4.9	3.9	4.4	2	5.5	4.8	3.8	4.2	2
GRU	5.8	5.4	4.1	4.8	4	5.8	5.2	3.9	4.6	4
LSTM	6.0	5.6	4.6	5.2	5	6.0	5.6	4.4	5.1	5
ARNN	4.0	3.3	3.2	3.1	1	4.2	3.4	3.2	3.1	1
Net Income										
Naive	4.5	5.0	5.6	5.3	6	4.5	5.2	5.7	5.5	6
Snaive	6.2	5.8	6.5	6.3	9	6.2	5.7	6.4	6.2	9
Drift	4.5	5.2	5.5	5.3	7	4.8	5.8	5.8	5.8	8
Holt	4.6	5.3	5.7	5.5	8	4.6	5.5	6.1	5.8	7
ARIMA	4.0	4.3	5.4	4.8	4	3.9	4.3	5.3	4.7	4
Simple	5.5	5.0	4.1	4.5	2	5.4	4.7	3.9	4.3	2
GRU	5.6	5.2	4.2	4.7	3	5.5	5.0	3.9	4.5	3
LSTM	6.0	5.6	4.6	5.2	5	5.8	5.5	4.4	5.0	5
ARNN	4.1	3.4	3.4	3.2	1	4.1	3.4	3.4	3.2	1
EPS										
Naive	4.5	5.1	5.6	5.4	7	4.6	5.4	5.8	5.7	7
Snaive	6.2	5.9	6.6	6.3	9	6.3	5.8	6.5	6.2	9
Drift	4.7	5.4	5.4	5.4	8	4.7	5.8	5.9	5.9	8
Holt	4.5	5.0	5.4	5.2	5	4.4	5.1	5.6	5.4	6
ARIMA	4.0	4.3	5.1	4.6	3	4.0	4.1	5.0	4.5	4
Simple	5.4	4.9	4.2	4.5	2	5.4	4.7	4.1	4.4	2
GRU	5.6	5.2	4.2	4.8	4	5.6	5.0	4.0	4.5	3
LSTM	5.8	5.7	4.8	5.4	6	5.7	5.6	4.7	5.2	5
ARNN	4.2	3.5	3.6	3.3	1	4.2	3.4	3.4	3.2	1

Table 6: Forecasting performance ranking per forecasting horizon - Prediction Intervals

	sMIS (rank)				Rank
	Quarter (1)	Year (1-4)	Long (5-6)	Total (1-6)	
EBIT					
Naive	4.3	4.1	4.4	4.1	2
Snaive	5.1	4.3	4.4	4.3	4
Drift	4.2	4.5	5.2	4.7	6
Holt	3.8	4.1	4.8	4.3	5
ARIMA	3.3	3.8	4.1	3.9	1
Simple	5.1	4.9	4.4	4.8	7
GRU	7.2	7.2	6.5	6.9	8
LSTM	7.6	7.8	7.4	7.7	9
ARNN	4.3	4.3	3.9	4.2	3
Net Income					
Naive	4.2	3.7	4.1	3.8	2
Snaive	4.8	4.0	3.9	3.8	3
Drift	4.1	4.2	5.0	4.5	5
Holt	3.7	3.7	4.3	4.0	4
ARIMA	3.4	3.7	3.9	3.7	1
Simple	5.2	5.3	4.8	5.2	7
GRU	7.1	7.4	6.8	7.2	8
LSTM	7.9	8.1	7.8	8.1	9
ARNN	4.6	4.8	4.3	4.7	6
EPS					
Naive	4.2	3.7	4.0	3.7	1
Snaive	5.0	4.3	4.2	4.2	4
Drift	4.1	4.1	4.9	4.4	5
Holt	3.6	3.8	4.5	4.1	3
ARIMA	3.5	3.8	4.0	3.8	2
Simple	5.2	5.1	4.7	5.0	7
GRU	7.2	7.4	6.8	7.2	8
LSTM	7.6	8.0	7.8	8.0	9
ARNN	4.4	4.7	4.1	4.5	6