

## **24 Hours:**

### **Test Dataset Metrics:**

<b>Test</b>	<b>Baseline</b>	<b>LSTM</b>	<b>BiLSTM</b>	<b>Transformer</b>	<b>Wide Transformer</b>
<b>MAE</b>	55.437	36.065	35.960	37.251	37.779
<b>RMSE</b>	78.873	53.560	53.449	55.670	56.715
<b>R2</b>	0.072	0.573	0.575	0.538	0.520

### **AirNow Metrics:**

<b>Chaoyang D.</b>	<b>Baseline</b>	<b>LSTM</b>	<b>BiLSTM</b>	<b>Transformer</b>	<b>Wide Transformer</b>
<b>MAE</b>	54.700	37.020	36.532	38.018	38.294
<b>RMSE</b>	84.103	57.095	56.690	59.211	60.060
<b>R2</b>	0.111	0.564	0.570	0.531	0.516

## **6 Hours:**

### **Test Dataset Metrics:**

<b>Test</b>	<b>Baseline</b>	<b>LSTM</b>	<b>BiLSTM</b>	<b>Transformer</b>	<b>Wide Transformer</b>
<b>MAE</b>	49.147	20.921	20.937	21.246	22.057
<b>RMSE</b>	70.783	33.815	33.638	34.282	35.973
<b>R2</b>	0.253	0.830	0.832	0.825	0.806

### **AirNow Metrics:**

<b>Chaoyang D.</b>	<b>Baseline</b>	<b>LSTM</b>	<b>BiLSTM</b>	<b>Transformer</b>	<b>Wide Transformer</b>
<b>MAE</b>	48.234	22.635	22.534	22.869	23.821
<b>RMSE</b>	76.567	39.129	38.830	39.326	41.530
<b>R2</b>	0.263	0.795	0.798	0.793	0.769

## SEASONS

### 6 Hours:

AirNow Metrics on BiLSTM:

Chaoyang D.	Full Year	Spring	Summer	Fall	Winter
MAE	22.534	19.990	19.097	22.980	32.881
RMSE	38.830	31.576	26.245	33.736	50.517
R2	0.798	0.795	0.472	0.783	0.818

## EXCLUSION

	LSTM	Exclusion (LSTM)
MAE	37.020	37.168
RMSE	57.095	56.284
R2	0.564	0.576