

Time Series Forecasting

The Time Series Forecast platform builds a variety of different exponential smoothing models and automatically selects the with the best forecast performance. The platform is designed to forecast multiple time series.

Time Series Forecast

- From an open JMP® data table, select **Analyze > Specialized Modeling > Time Series Forecast**.
- Select a continuous variable from **Select Columns**, and click **Y** (continuous variables have blue triangles).
 - More than one times series can be included in the Y role and models and forecasts will be created for each. Here we illustrate with just one time series (Sales).
- Select the variable that identifies the time periods and click **Time** (optional).
 - Data must be sorted by time and equally spaced.
- Click **OK**.

In **Model Specifications** you can view the recommended models or modify the **modeling** options.

Under **Complete Specification**, you can choose:

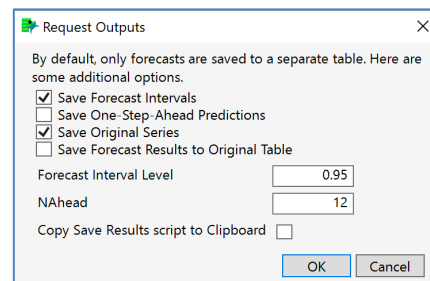
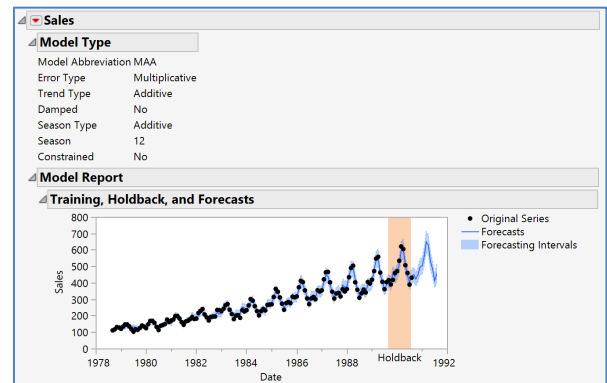
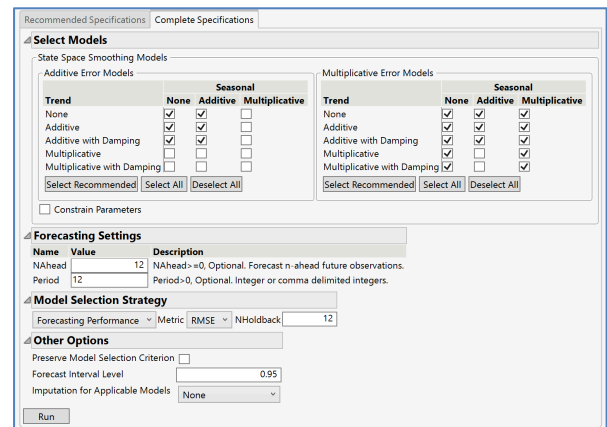
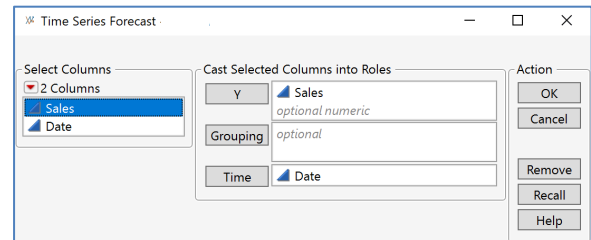
- Time periods to forecast (NAhead)
- Period for seasonality (e.g., monthly)
- Model Selection Strategy (AIC, BIC, or Forecasting Performance)
- Holdback sample and metric to assess fit (if choosing Forecast Performance).

- Click **Run**

- Best fit time series model is displayed (e.g., MAA: Multiplicative Error, Additive Trend, No Dampening, Additive Seasonality).
- Time Series graph displays data, best fit model, forecasting intervals, and future forecast as defined by NAhead.

- Choose **to Save Results** to the original data table or to a new data table from the **red triangle** at the top of the Report

Monthly Sales.jmp (Help > Sample Data Folder > Time Series)



Visit **Predictive and Specialized Models > Time Series Forecast** in **JMP Help** to learn more.