



Modeling the Dynamics of COVID-19

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Data Source

- ☒ Local
☐ Our World In Data

Continent

Europe

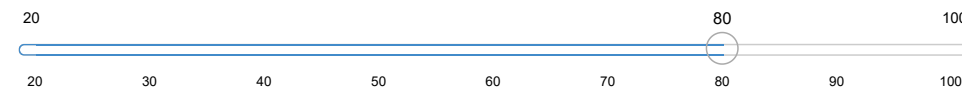
Country

France

Modeling Period

2020-04-04 to 2020-06-01

Percentage of Training Dataset (Training vs. Testing Split):



Variable of Interest

- ☒ New Cases
☐ New Deaths

France

The study timeframe starts from **2020-04-04** until **2020-06-01** covering **59** days.

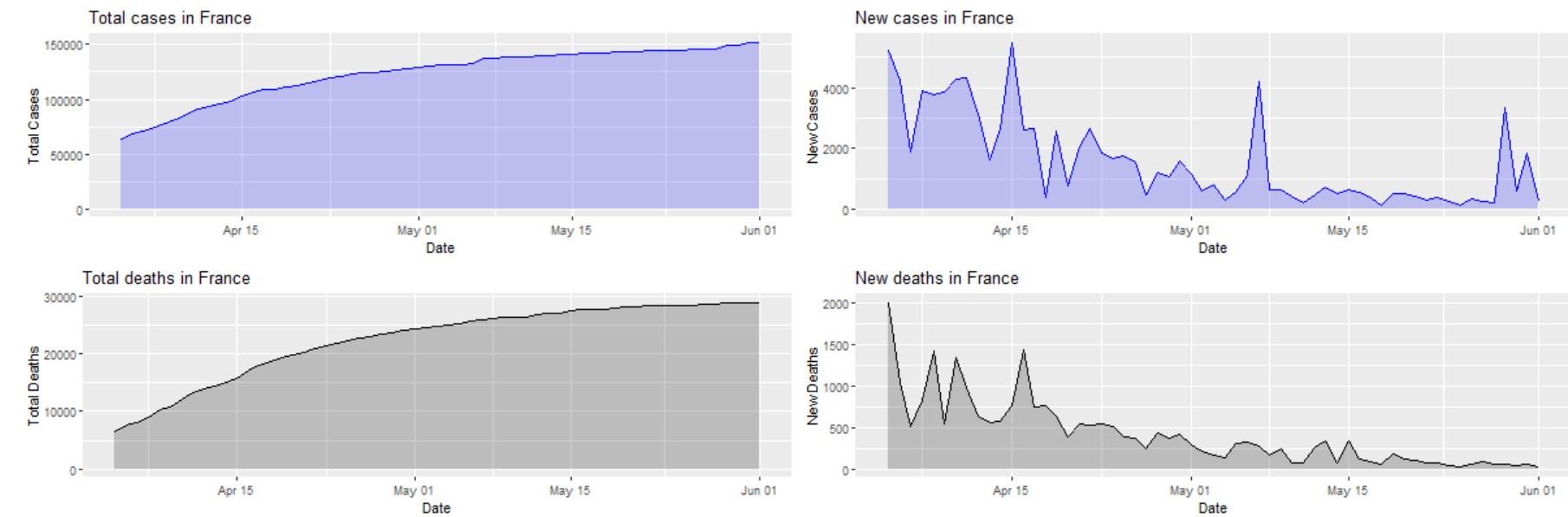
The first case was reported on: **2020-04-04**

The first death was reported on: **2020-04-04**

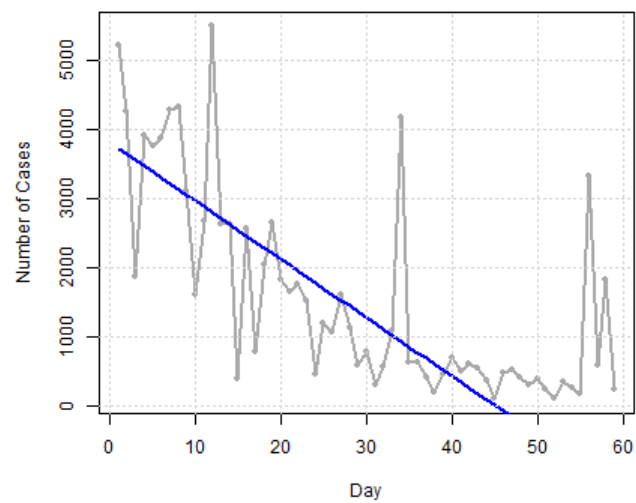
The total cumulative number of cases by the last day in the selected period is **151753** cases.

The total number of deaths by the last day in the selected period is **28802** deaths.

Cases vs. Deaths Overview

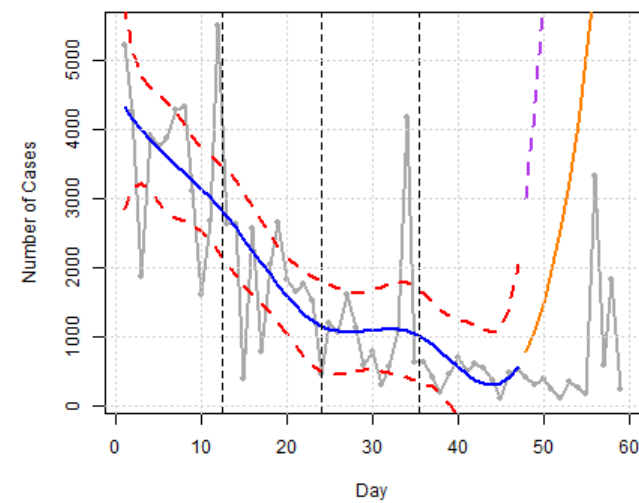


New Cases in France (Actual vs. LR)



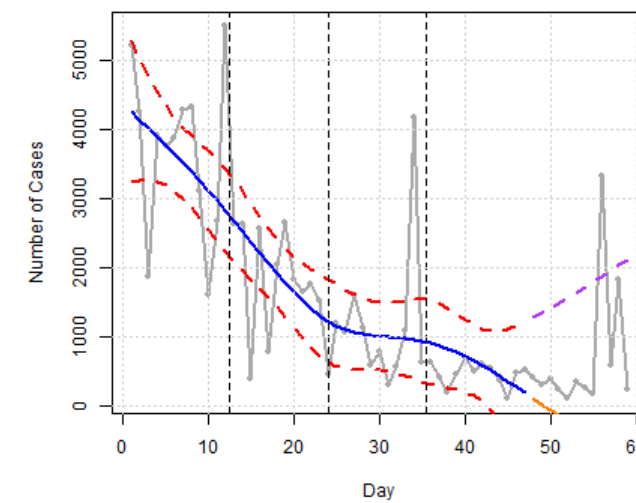
AIC = 783.477
BIC = 789.027
Training MSE = 894,647.1
Testing MSE = 3,036,191

New Cases in France (Actual vs. Cubic Spline)



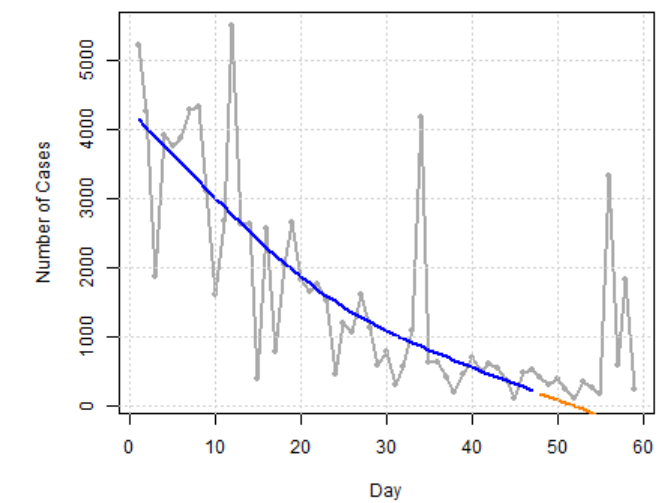
AIC = 786.264
BIC = 801.065
Training MSE = 767,358.3
Testing MSE = 21,937,717

New Cases in France (Actual vs. Natural Spline)



AIC = 782.885
BIC = 793.986
Training MSE = 777,578.7
Testing MSE = 2,154,392

New Cases in France (Actual vs. Smoothing Spline)



Degrees of Freedom = 3.002
AIC = 75,132,442
BIC = 75,132,447
Training MSE = 799,281.3
Testing MSE = 1,531,808