



## West Nile Virus Prediction

Predict West Nile virus in mosquitos across the city of Chicago

\$40,000 · 1,306 teams · 2 years ago

[Overview](#)[Data](#)[Kernels](#)[Discussion](#)[Leaderboard](#)[Rules](#)[Late Submission](#)

### Overview

#### Description

#### Evaluation

#### Prizes

#### Getting Started With Scripts

#### Timeline

**West Nile virus** is most commonly spread to humans through infected mosquitos. Around 20% of people who become infected with the virus develop symptoms ranging from a persistent fever, to serious neurological illnesses that can result in death.

In 2002, the first human cases of West Nile virus were reported in Chicago. By 2004 the City of Chicago and the Chicago Department of Public Health (CDPH) had established a comprehensive surveillance and control program that is still in effect today.



Every week from late spring through the fall, mosquitos in traps across the city are tested for the virus. The results of these tests influence when and where the city will spray airborne pesticides to control adult mosquito populations.

Given weather, location, testing, and spraying data, this competition asks you to predict when and where different species of mosquitos will test positive for West Nile virus. A more accurate method of predicting outbreaks of West Nile virus in mosquitos will help the City of Chicago and CPHD more efficiently and effectively allocate resources towards preventing transmission of this potentially deadly virus.

We've jump-started your analysis with some [visualizations](#) and [starter code](#) in R and Python on [Kaggle Scripts](#). No data download or local environment setup needed!



### Acknowledgements

This competition is sponsored by the [Robert Wood Johnson Foundation](#). Data is provided by the [Chicago Department of Public Health](#).

#### Leaderboard



- 1 Cardal
- 2 Dmitry & Leustagos
- 3 nhlx5haze
- 4 The Iron Curtain
- 5 no one
- 6 Victor
- 7 Syowen

#### Kernels



[Beating the Benchmark ;\) \(0.71+\)](#)  
82 votes · 2 years ago

[Motion](#)

62 votes · 2 years ago

[West Nile heatmap](#)

48 votes · 3 years ago

[Starter Logistic Regression in R](#)

33 votes · 3 years ago

#### 135 discussion topics



[Describe these rows of training dat...](#)  
0 replies · 7 days ago

[Data Privacy](#)

0 replies · 16 days ago

[West Nile heatmap](#)

4 replies · 6 months ago

[West Nile heatmap by year](#)

0 replies · 6 months ago

8

May the Force be with us

[Keras deep net starter code](#)

32 votes · 2 years ago

[Simple Lasagne NN](#)

8 replies · 8 months ago

Launch

3 years ago

Close

2 years ago

2 years ago

Rules Acceptance

Deadline

1,306

Teams

1,447

Competitors

Points

This competition awarded standard [ranking points](#)

Tiers

This competition counted towards [tiers](#)

Tags

tabular

binary classification

auc

extra small